The Natural Hazards Data Resources Directory

A Resource for the Disaster and Hazard Management Community of Practitioners and Research Scholars

> Leaura M. Hennig Compiler and Editor

NHRAIC Special Publication No. 21 NGDC Key to Geophysical Records Documentation No. 23



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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
National Geophysical Data Center
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Introduction

A natural hazard is a rare or extreme event in nature that adversely impacts human life, property, or activity. No human settlements are free from the risk of natural hazards, therefore it is vital that researchers and decision-makers have access to all available hazards information.

Information needs are especially acute as we enter the 1990s, and we contemplate rising tolls from natural hazards worldwide. In response to this threat, the United Nations General Assembly designated the 1990s the Decade for Natural Disaster Reduction--a 10-year period devoted to improved efforts to reduce losses from natural extremes. The challenge to the hazards community is to halt or reverse the trend of rising impacts. Experience suggests that enough knowledge already exists, if properly applied, to substantially reduce both human and property losses from natural disasters.

The United Nations called upon all countries to: establish national Decade programs which examine their capabilities for reducing the toll of natural hazards; assess the particular requirements of their respective countries in order to improve those capabilities; and develop a strategy for attaining these goals. An important first step in this process is identifying available information resources that address hazards management and mitigation activities. This directory was compiled to take that step as a contribution to the United States Decade program.

The directory was prepared by the Natural Hazards Research and Applications Information Center at the University of Colorado at Boulder, in conjunction with the National Oceanic and Atmospheric Administration's National Geophysical Data Center in Boulder. Financial support was provided by the National Science Foundation through grant # CES-8717115 to the Program on Environment and Behavior of the Institute of Behavioral Science at the University of Colorado. Special thanks to Dr. Eleonora Sabadell of NSF's Natural and Manmade Hazards Mitigation Program for this grant. NOAA's National Geophysical Data Center funded the publication of this directory.

How this Directory was Compiled

Data resource surveys were mailed to nearly 1400 potential sources of natural hazards data in the winter of 1988-89. These sources were identified from existing data bases at the Natural Hazards Center as well as through a wide-ranging search for other appropriate data resources. Following the mail survey, the responses were screened and sorted, including those which provided data, technical assistance, or services related to hazards on a regional or national basis. In addition, a follow-up telephone survey was conducted of all non-respondents believed to be maintaining valuable data resources. Those not included were primarily private for-profit firms, and state agencies with data pertaining only to a specific state.

Usefulness

Despite efforts to be complete and thorough in the preparation of this directory, there may be sources of information which are not included. Additionally, information contained herein may contain minor inaccuracies, especially because prices, data, content, format, contact people, and offices are everchanging. It is intended that the directory be updated periodically, and therefore we ask you to send any comments about its usefulness, as well as corrections or additions, to:

Natural Hazards Center University of Colorado Campus Box 482 Boulder, CO 80309-0482 USA

How to Use this Directory

The directory includes two types of information: 1) data resources organized by natural hazard topic, and 2) lists of hazard-related organizations.

Each data resource listed includes the following:

Data Resource Title

Organization The Organization indicates which

administrative group is maintaining the data.

Contact The Contact provides the

person to call or write for further information.

Description The Description of the data

resource may include the topic, level of aggregation, geographic area covered, time period of record, and source

of data.

Format The Format describes the

structure of the data, e.g. hard copy (printed matter); computer copy (disks, tapes, on-line); audio-visual materials; and/or technical

assistance.

Availability The Availability informs the

user of costs for acquiring the data, restrictions on access (if any), location of the data if different from the contact, frequency of updating

the data, and related

services.

Additional Related

Information

The Additional Related Information lists any pertinent information such as reports, articles, pamphlets,

and users' guides which describe the data.

The hazard-related organizations located in the Appendix include numerous state and federal institutions, as well as US and international programs. When appropriate, general functions of these organizations are described.

The directory has three indices: agency, subject, and geographic. Many data resources apply to more than one hazard (e.g. earthquake and fire); therefore, through cross-referencing in the subject index, the user may locate multi-hazard data resources.

To use this directory, simply look for a data resource by topic in the Table of Contents or Subject Index, and turn to the appropriate page.

GEOLOGICAL HAZARDS

Avalanche Information

Organization

Colorado Avalanche Information Center

Contact

Knox Williams, Director

Colorado Avalanche Information Center

c/o Rocky Mountain Forest and Range Experiment Station

Forest Service

US Department of Agriculture 240 West Prospect Street Fort Collins, CO 80526 Telephone: (303) 498-1847

FTS: 323-1847

Description

The Westwide Avalanche Network consists of 40 observing stations in the Western United States and Alaska. The Network maintains daily avalanche, snow cover, and weather data. Each month the network receives data from the observing stations. The Network contains data for the last twenty to thirty-five years. The Colorado Avalanche Information Center also operates the Colorado Avalanche Warning Service, and publishes articles on

avalanche accidents.

Format

The Center stores data on computer cards and magnetic tape. The Center provides data listings or punched cards at no cost, except for large requests. The Center updates data annually, during the summer.

Availability

Contact the Rocky Mountain Forest and Range Experiment Station.

Avalanche Information

Organization

Northwest Avalanche Center

Contact

Sue Ferguson, Meteorologist 7600 Sandpoint Way NE

Box C-15700 Seattle, WA 98115 Telephone: (206) 526-6164

Description

The Northwest Avalanche Center, NWAC, collects data on mountain weather, snow and avalanche fatalities, snow stability, avalanche hazard forecasts, as well as snow and avalanches occurrences. Specifically, NWAC collects data from several elevations and geographic locations within the Olympics and Cascades of Washington and Northern Oregon from November through April. These data include: hourly temperature, wind, precipitation, and relative humidity from remote automated sensors; and daily observations of weather, snow, and avalanches from field observers.

AVALANCHE

NWAC also prepares daily forecasts from November through April. These forecasts include: summaries with micro- and meso-scale forecasts, snowpack analysis, avalanche forecast advisory, and hazard assessment.

Format

Archival data and forecasts are available on-line as requested. Current forecasts are available on-line through a computerized bulletin board.

Availability

Cooperators of NWAC's program have free access to all data and forecasts. Other users may be charged a minimal fee depending upon the expense of the request.

Additional Information

Contact NWAC for an extensive list of publications.

See also the following appendices:

- State Climatologists
- NOAA Regional Climate Centers
- National Weather Service

Earthquake Consortium

Organization

Central United States Earthquake Consortium

Contact

Harvey Ryland, Executive Director

Central United States Earthquake Consortium

2630 Holmes Road East Memphis, TN 38118 Telephone: (901) 345-0932

Description

The Central United States Earthquake Consortium (CUSEC) protects the citizens of Missouri, Mississippi, Illinois, Arkansas, Tennessee, Kentucky, and Indiana from earthquakes. CUSEC maintains a mitigation strategy plan, and provides public awareness programs. CUSEC also participates in

resource inventories and multi-state exercises.

Format

Hard copy and videos.

Availability

CUSEC distributes all of the earthquake related Federal Emergency Management Agency publications, as well as state published resources from

the seven CUSEC states.

Additional Information

CUSEC Monographs and list of publications.

Earthquake Consortium

Organization

Western States Seismic Policy Council

Contact

Roy Breckenridge, Chair

Western States Seismic Policy Council

University of Idaho Morill Hall, Room 332 Moscow, ID 83843 Telephone: (208) 885-7991

Description

The Western States Seismic Policy Council, WSSPC, formed in 1979 and the early 1980s. WSSPC improves understanding about earthquake preparedness, and formulates policy to lessen the impacts of earthquakes. The Council provides a cooperative forum for enhancing the development of comprehensive local, state, and national seismic safety policies and programs. WSSPC's fourteen member states include: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Texas, Utah, Washington and Wyoming. Each year WSSPC sponsors a conference. The location of the conference rotates among the

member states annually.

Format

Annual conference.

Availability

Contact Roy Breckenridge.

Earthquake Education & Preparedness

Agency

Association of Bay Area Governments

Contact

Jeanne Perkins, Program Manager Association of Bay Area Governments

Earthquake Program

PO Box 2050

Oakland, CA 94604-2050 Telephone: (415) 464-7900 Telex: (415) 464-7979

Description

The Association of Bay Area Governments, ABAG, helps solve problems that cross city and county boundaries. ABAG conducts research and forecasts population, housing and employment trends in order to plan for the future. ABAG's Earthquake Program examines the Bay area's existing building stock and the liability of both local governments and businesses and industries for earthquake hazards and losses. ABAG also produces an

earthquake hazards map for the Bay area.

Format

Hard copy, floppy disks, dBASE III files, maps, and technical assistance.

Availability

Contact ABAG for publication information.

Earthquake Education & Preparedness

Organization

Bay Area Regional Earthquake Preparedness Project

Contact

Sarah Nathe, Resource & Publications Coordinator Bay Area Regional Earthquake Preparedness Project

Metro Center

101 8th Street, Suite 152 Oakland, CA 94607-4756 Telephone: (415) 540-2713

Description

The Bay Area Regional Earthquake Preparedness Project, BAREPP, is specifically charged with assisting local governments in the California Bay Area in reducing their structural and non-structural vulnerability to earthquakes. The resources maintained are documents and audio-visual

materials on building retrofit, public awareness, emergency planning, and

disaster response.

Format

Hard copy, videotapes, slides, and audiotapes.

Availability

Publications are for sale through the Association of Bay Area Governments (ABAG), PO Box 2050, Oakland, CA 94604. All other materials are available only to public and private organizations in the 10 county Bay Area.

Additional Information

Contact ABAG for a list of BAREPP publications.

Earthquake Education & Preparedness

Organization

California Seismic Safety Commission

Contact

Ed Hensley, Information Officer California Seismic Safety Commission

1900 K Street, Suite 100 Sacramento, CA 95814 Telephone: (916) 327-0669

Description

The California Seismic Safety Commission maintains documents and audiovisual materials that translate seismic research, engineering, and architectural information into practical guide books for local officials.

Format

Hard copy (guide books). Compliance data, earthquake safety legislation,

are available on Macintosh computer files.

Availability

Send for guide books which are free of charge. The computer information may be received in printed or diskette form.

Additional Information

Guidebook: To Identify and Mitigate Seismic Hazards in Buildings. Report No. SSC 87-03. December, 1987. California Seismic Safety

Commission. Sacramento, CA.

California at Risk: Steps to Earthquake Safety for Local Government.

Report No. SSC 88-01, Jan. 1988. California Seismic Safety Commission.

Sacramento, CA.

Earthquake Education & Preparedness

Organization

Earthquake Education Center

Contact

Joyce Bagwell, Director Baptist College at Charleston Earthquake Education Center

PO Box 10087

Charleston, SC 29411 Telephone: (803) 797-4208

Description

The Earthquake Education Center maintains educational materials on earthquake history, causes and effects, and preparedness in the form of pamphlets, audio-visual aids, monographs, and bibliographic materials for schools (K-12 and post-secondary), hospitals, businesses, industries, life-line facilities, and special-needs groups (girl scouts, senior citizens, handicapped, and youth). The Center provides data on South Carolina's seismic activity from the US Geological Survey network located on the Baptist College

campus.

Format

Hard copy monographs, teachers' packages, pamphlets, bibliographic materials are available. Audio-visual materials include: films, slides, slide

shows, photographs, and video and audio cassettes.

Availability

Available upon request. Contact the Earthquake Education Center.

Earthquake Education & Preparedness

Organization

Southern California Earthquake Preparedness Project

Contact

Pamela Broadous, Public Information Officer

Southern California Earthquake Preparedness Project

600 South Commonwealth Avenue, Suite 1100

Los Angeles, CA 90005 Telephone: (213) 739-6695

Description

The Southern California Earthquake Preparedness Project, SCEPP, maintains earthquake preparedness guidelines, reports, and a newsletter. SCEPP has a small library, as well as an Information Network Resource

System and audio-visual materials.

Format

Hard and computer copy, as well as audio-visuals.

Availability

Call or write to request a listing of available resources. Books, brochures,

data bases, videos, slide and tape programs are also available.

Additional Information

The Southern California Earthquake Preparedness Project. Brochure.

"Preparedness Planning Guides and Public Information Materials of the SCEPP." Product List.

Earthquake Education & Preparedness

Organization

Ventura County Office of Emergency Services

Contact

Karen Guidi

Ventura County Office of Emergency Services

800 South Victoria Ave. Ventura, CA 93009

Telephone: (805) 654-2551

Description

Earthquake preparedness is encouraged for everyone in California, yet information on earthquake safety is not widely available in a medium for the hearing-impaired. In 1987 the Ventura County Office of Emergency Services produced a special video on household-level preparedness, after researchers discovered that 11% of Ventura County residents are either deaf or have some form of hearing impairment. Silent Quake (1987, 42 minutes long) is a signed, captioned, and narrated videotape of a deaf family's visit with a neighbor to discuss earthquake preparedness. It provides carefully presented, easily understood information on stocking a safety kit and food supplies for survival after an earthquake; securing heavy interior objects and a building's foundation; arranging with neighbors for communication and assistance after an earthquake; taking protective measures during an earthquake; handling damage to water, electrical, and gas lines; and assisting the injured.

Format

Videotape.

Availability

Cost is \$30.

Additional Information

For further information regarding the production of Silent Quake contact

Karen Guidi.

Earthquake Research & Information

Organization

Earthquake Engineering Research Center

Contact

Vitelmo Bertero, Director

Earthquake Engineering Research Center

National Information Service for Earthquake Engineering

University of California at Berkeley

1301 South 46th Street Richmond, CA 94804 Telephone: (415) 231-9403

Description

The Earthquake Engineering Research Center's, EERC, program develops methods and procedures for the management of earthquake hazards through economically feasible design, construction, and land use planning. Projects also analyze physical, legal, social, and economic policy alternatives for risk control. The program includes the National Information Service for Earthquake Engineering, NISEE, at the University of California at Berkeley and at the California Institute of Technology which:

- 1) develop and maintain an earthquake engineering library of over 35,500 items.
- collect and distribute computer software and programs (over 72 available),
- 3) publish Abstract Journal in Earthquake Engineering, "NISEE/EERC News," and EERC reports.

Format

Hard and computer copy.

Availability

Bibliographies of earthquake engineering reports and NISEE activities are available. The National Technical Information Service or NISEE provides copies of reports.

Additional Information

Bibliography of Earthquake Engineering, compiled by Edward Hollis, Earthquake Engineering Research Institute, Pasadena, CA 1971.

Abstract Journal in Earthquake Engineering, annual review of over 2,400 abstracts with subject and author indices. NISEE. University of California at Berkeley. Richmond, CA.

NISEE/EERC News, quarterly report of current earthquake engineering research. NISEE. University of California at Berkeley. Richmond, CA.

Earthquake Research & Information

Organization

Center for Earthquake Studies

Contact

David Stewart, Director Center for Earthquake Studies

One University Plaza Cape Girardeau, MO 63701-4799 Telephone: (314) 651-2000

Description

Because over 3 million Missourians, as well as more than 12 million midwesterners, are at risk from earthquakes originating in the New Madrid Seismic Zone, a Center for Earthquake Studies opened at the Department of Earth Sciences, Southeast Missouri State University. The center is a cooperative endeavor of the university and the Missouri State Emergency Management Agency. Its purpose is to protect people from earthquake hazards by a variety of mitigation activities, including applied research, that will prevent or reduce casualties, injuries, and property loss.

The founders of the center recognize that relatively small investments in seismic hazard mitigation yield significant savings in reduced damages. Therefore, they plan to undertake a wide range of activities including the development of public awareness campaigns; publication of books and videos; assessment of risk in specific regions; promotion of safe building practices, especially in schools; organization of conferences, seminars, courses, and training workshops; and the initiation of other activities with the Missouri State Emergency Agency.

Format

Hard copy, technical assistance, audio-visual materials.

Availability

For further information contact the Center.

See also the following appendices:

- · Emergency Management
- Army Corps of Engineers
- FEMA
- Small Business Administration
- World Health Organization

Computational Seismology

Organization Center for Computational Seismology

Contact Ernest Majer, Group Leader

Division of Geophysics and Geomechanics Center for Computational Seismology

Lawrence Berkeley Labs 50 East #1 Cyclotron Road Berkeley, CA 94720 Telephone: (415) 486-6709 Telex: 910-366-2037 Telefax: (415) 486-5686

Description The Center for Computational Seismology, CCS, offers a wide variety of

state-of-the-art software and hardware to conduct seismic research. CCS

analyzes seismic data; develops seismic exploration and monitoring techniques; conducts hydrofracture detection, propagation and monitoring research, and generates seismic data bases. CCS is the data processing center for CALCRUST a consortium of four universities conducting research on crustal structural analysis. CCS also is a computational support

base for the development of seismic monitoring via computers.

Format On-line.

Availability Arpa net Mil net

128.3.254.11 CCS@LBL.

Earthquake Data Base: Australia

Organization Australian Seismological Center

Contact Kevin McCue, Manager Information Section

> Australian Seismological Center Bureau of Mineral Resources

GPO Box 378 Canberra ACT 2605

Australia

Telephone: [61] (62) 499675 Telex: 62229 BMRCOM Telefax: [61] (62) 480913

Description The Australian Seismological Center maintains an earthquake data file.

> This file contains epicenter data: time, latitude, longitude, depth, magnitude, number of stations, and source. The time period of the

earthquake data file is 1873 through 1988; the range of the file is 0-90

degrees South by 131-163 degrees East.

Format Information is available on ASCII files, floppy discs, or tapes.

Availability The cost per tape is \$50. Working hours are Monday to Friday, 8am - 5pm.

Earthquake Data Base: California

Organization

California Department of Conservation

Contact

Joseph Ziony, Assistant Director California Department of Conservation

Division of Mines & Geology 1416 Ninth Street, Room 1341 Sacramento, CA 95814-5576 Telephone: (916) 445-1825

Description

The California Department of Conservation is California's Geological Survey. Its publications on geology and seismology span from 1880 to the present and include: bulletins, special reports, special publications, preliminary reports, county reports, geologic maps, gravity maps, fault maps, map sheets, annual report of the State Geologist, Strong-Motion

map sheets, annual report of the State Geologist, Strong-Motion Instrumentation Program reports, earthquake planning scenarios, and

California Geology magazine.

Format

On-line and hard copy.

Availability

Their computer bulletin board lists: all current publications for sale with prices, earthquakes in California with magnitudes greater than 3, other geohazard events, current state legislation affecting geology, telephone numbers of regional division offices, and a calendar of upcoming

professional geology and seismology meetings.

Additional Information

Write for free "List of Available Publications" booklet to Division of Mines & Geology, 660 Bercut Drive, Sacramento, CA 95814-0131; telephone (916) 445-5716 for publication sales information. Prepayment is required.

California Geology magazine subscription is \$7 per year. Computer bulletin board is named "CDMG ON-LINE", telephone (916) 327-1208, 8 bits, no

parity, one stop.

Earthquake Data Base: Peru

Organization Centro Regional de Sismologia para America del Sor

Contact Alberto Giesecke, Director

Centro Regional de Sismologia para America del Sor

Apartado 14-0363

Lima Peru

Telephone: [51] (14) 247421 Telex: [51] 20053PE PB LIMTC

Description The Centro Regional de Sismologia para America del Sor maintains

seismological bulletins from most South American countries over a variety

of time spans.

Format Hard copy.

Availability Requests should be made by letter.

Earthquake Data Base: Southeastern US

Organization Seismological Observatory

Contact G. Bollinger, Director

Seismological Observatory

Virginia Tech

Blacksburg, VA 24061 Telephone: (703) 231-6729

Description Virginia Tech's Seismological Observatory maintains an earthquake catalog

for the Southeastern United States for all occurrences in the region from

1977 to the present.

Format Hard copy and magnetic tape.

Availability Handled on an ad hoc basis.

Earthquake Data Base: Switzerland

Organization

Swiss Seismological Service

Contact

D. Mayer-Rosa, Chief Seismologist

Swiss Seismological Service

ETH-Honggerberg CH-8093 Zurich Switzerland

Telephone: [41] (1) 377-2602 Telex: 823480 EHEB CH Telefax: [41] (1) 371-1864

Description

The Swiss Seismological Service maintains the Earthquake Data Base, EDB. EDB contains about 5,000 epicenters in Switzerland from 1300 to

1989.

Format

Computer based off-line data bank.

Availability

Selections of data are available on request.

Additional

Information

The Swiss Seismological Service produces a monthly seismological bulletin.

Earthquake Data Base: Turkey

Organization

Earthquake Research Institute

Contact

Oktay Ergunay, Head

Earthquake Research Institute

Eskisehir Yolu Lo ncu Km Lodumlu Mevkii

Ankara Turkey

Telephone: (90) 4-2873640 Telex: 42477 afet tr Telefax: 213 76 58

Description

The Earthquake Research Institute of Ankara, Turkey maintains a

computer catalog of earthquakes for the period 1880-1986, and reports of

Turkish earthquakes since 1940.

Format

Hard copy and computer copy.

Availability

Information is available upon written request.

Earthquake Data Bases: US & Worldwide

Organization

National Geophysical Data Center

Contact

NOAA/NESDIS

National Geophysical Data Center

325 Broadway

Boulder, CO 80303-3328

Description

Earthquake Data Base:

The National Geophysical Data Center's Earthquake Data Base contains information on over 500,000 earthquakes and associated phenomena, including dates and times of occurrences, latitude and longitude locations, magnitudes, depths of focus, and some related data on effects. Data are worldwide. The time span is B.C. to near present, but mostly since 1900. Sources are the US Geological Survey, university programs, historical

Format

Magnetic-tape copies, hard copies, searches, plots, maps.

Availability

Magnetic tape copies, searches, plots, maps, and lists are available at cost of copying (\$351 for tape copies, \$126 for search lists and page-size maps). Searches usually cover a specific geographic area or data within specified

limits, e.g. date, magnitude, depth of focus.

Additional Information

Summary of Earthquake Data Base, Wilbur Rinehart, Herbert Meyers, and Carl von Hake, Key to Geophysical Records Documentation No. 21, NOAA, National Geophysical Data Center, Boulder, CO, October 1985.

Preliminary Determination of Epicenters: Monthly Listing. US Geological Survey. Available from US Government Printing Office, Washington, DC 20402 (a 1 year subscription is \$14.00 domestic and \$17.50 foreign).

For additional information, contact: Ray Habermann, Geophysicist Telephone: (303) 497-6472

FTS: 323-6472

Description

Earthquake Effect File:

The National Geophysical Data Center's Earthquake Effect File contains data on earthquake effects measured on the Modified Mercalli Intensity Scale for over 22,000 earthquakes in the United States between 1928 and 1982. Information includes: the source of the earthquake, the latitude and longitude of the nearest city or town, and the calculated distance between the two points. The source of data is principally the US Earthquakes Series and Abstracts of Earthquake Reports for the US.

Format

Magnetic tape copies, plots, maps, lists, searches, and technical assistance.

Availability

Magnetic tape copies, searches, plots, maps, and lists are available at cost of copying (\$192 for tape copies, 1988 price). Searches usually cover a specific geographic area.

Additional Information

Earthquake Intensity Data. Announcement/SE-0201. NOAA. National Geophysical Data Center. Boulder, CO 80303. 1988.

<u>US Earthquakes Series</u>. US Geological Survey. Open File Services Section, Box 25425, Federal Center, Denver, CO 80225.

Earthquake History of the US. No. 41-1, Revised Edition through 1970. NOAA. National Geophysical Data Center. Boulder, CO 80303. 1973.

For additional information, contact: Patricia Lockridge, Geophysicist Telephone: (303) 497-6337

FTS: 320-6967

Description

Earthquake Slides:

The Geological Hazards Slide Set consists of eight unique sets of 35mm slides that depict geologic hazards throughout the world from 1811 to present. Each slide set includes 20 illustrations covering the following subjects:

Earthquake Damage - General (Color)

Earthquake Damage, San Francisco, California, April 18, 1906 (B&W) Earthquake Damage, Mexico City, Mexico, September 1985 (Color) Earthquake Damage to Transportation Systems (B&W, Color)

Earthquake Damage to Schools (B&W, Color)

Volcanoes in Eruption (B&W, Color) Volcanic Rocks and Features (color) Tsunami - General (B&W, Color)

Format

Color and black and white slides. Each set includes 20 slides and a list of captions.

Availability

\$20.00 per set (1988 prices).

Additional Information

Geologic Hazards Slide Sets, SE-0801. NOAA. Boulder, CO 80303.

For additional information, contact: Patricia Lockridge, Geophysicist Telephone: (303) 497-6337

FTS: 320-6337

Description

Significant Earthquake Data Base:

The Significant Earthquake Data Base contains nearly 3,000 records of earthquake events worldwide from 2,000 B.C. to the present. Events included meet these criteria: one million dollars in damage, 10 deaths, or magnitude of 7.5 or greater. The following parameters are included for each event: time, date, latitude, longitude, focal depth, magnitude, number

of deaths, information on damage, and references.

Format

Magnetic tape, diskette, maps, and catalogs.

Availability

The magnetic tape copy of an entire file is \$90. An entire file on IBM-PC compatible 5 1/4" high density floppy diskette is \$30. Retrievals are \$115. Catalogs (\$10), wall maps (\$5-10) are also available (1988 prices).

Additional Information

All non-federal orders must be prepaid.

For additional information, contact: Patricia Lockridge, Geophysicist

Telephone: (303) 6337

FTS: 320-6337

Description

Strong-Motion Data Archive:

The Strong-Motion Data Archive is a continuously updated archive. It is a worldwide collection of digitized strong-motion accelerograms. The archive includes over 12,000 records from Australia, Canada, Chile, El Salvador, Fiji, India, Italy, Japan, Mexico, New Zealand, Nicaragua, New Guinea, Peru, Romania, Taiwan, the US, and the USSR. Types of data available include raw, filtered, and response spectra records obtained from a wide variety of recording environments such as buildings, dams, and bridges.

Format

Copies of records are available on 9 track magnetic tape and IBM

compatible diskettes.

Availability

Data are furnished at cost of duplication.

Additional Information

Comprehensive Catalog of Digitized Strong-Motion Data, L.W. Row, Report SE-45, National Geophysical Data Center and World Data Center-A for Solid Earth Geophysics, Boulder, CO, 1989.

For additional information, contact:

Lee Row, III

Telephone: (303) 497-6764

FTS: 320-6764

Earthquake Data Base: West Germany

Organization

Institute of Geophysics

Contact

G. Schneider, Professor Richard Wagner Strasse Institute of Geophysics 44 D 7000 Stuttgart 1

West Germany

Telephone: [49] (711) 121-3592 Telex: [49] (07) 23563 Unig-d

Description

The Institute of Geophysics maintains seismological data from 1905 to the present, from seismological stations in the Southwest of Germany. The Institute also maintains macro-seismic data from 1800 to the present, and accelerograph data since 1976 for the Southwest of Germany.

Format

Data are available on-line via GRF at the Central Seismological Observatory. Seismograms and other information are available in hard

copy.

Availability

Information is available upon request.

Additional Information

Earthquakes in the Territory of the Federal Republic of Germany.

Data Catalogue of Earthquakes in the Federal Republic of Germany and

Adjacent Areas.

These publications are available from: BGR, Stilleweg 2, D-3000 Hanover

5r, West Germany.

Earthquake Data Base: Worldwide

Organization

International Seismological Center

Contact

The Director

International Seismological Center

Pipers Lane

Thatcham, Newbury, Berks RG13 4NS

United Kingdom

Telephone: [44] (635) 61022

Description

The International Seismological Center, ISC, a non-governmental organization, undertakes the final collection, analysis, and publication of standard earthquake information from all over the world. Earthquake

readings are received from some 1,500 seismograph stations representing every part of the globe, from Greenland to the South Pole.

The ISC produces four publications, as well as provides technical searches. The ISC Bulletin contains comprehensive lists of earthquake hypocenters and station observation reports. The Regional Catalog of Earthquakes and the Felt & Damaging Earthquakes Inventory are geographic sorts of the hypocenters. The Bibliography of Seismology contains references from 1250 current scientific journals.

Format

Hard copy or magnetic tape.

Availability Additional Information Prices for all publications and magnetic tapes are available from the ISC.

Data searches are available for hypocentral data and bibliographic

information.

Earthquake Data Base: Worldwide

Organization

Office of Earthquakes, Volcanoes & Engineering

Contact

Kaye Shedlock, Branch Chief

Branch of Geologic Risk Assessment Office of Earthquakes, Volcanoes & Engineering

MS 966, Box 25046 Denver Federal Center Denver, CO 80225

Telephone: (303) 236-1586 FTS: 776-1586 & 776-1519 Telex: 5106014123 ESL UD Telefax: (303) 236-1519

Description

The Office of Earthquakes, Volcanoes & Engineering maintains field data: seismograph readings; earthquake intensity information; and geologic, geophysical, and engineering data from sites and regions in the US and abroad. The field data covers thousands of years of past earth history up to and including recent geophysical events. Geologic risk assessment scientists, with specialization in geomechanics, geology, geography, geophysics, structural and civil engineering, and hazard and risk assessment, collect,

map, and analyze the field data.

Format

Geographic information system programs for earthquake hazard evaluations are available. In addition, information is also available from maps, scientific and technical reports, digital form, photographic records, and microfilm.

Availability

As a federal government mission agency, the US Geological Survey provides state-of-the-art earth science information to the public, universities, state and local governments, and the private sector to enhance public and private knowledge of scientific and technological information necessary for the effective management of the nation's resources and the health and welfare of the public. This information is available for a nominal fee. It can be obtained from all US repository libraries or from the Public Inquiries Offices of the US Geological Survey.

Data from geologic trenching, seismograph networks, and risk assessments are available in digital form and hard copy. Technical assistance in the areas of geophysics, geology, geomechanics, structural engineering, and hazards and risk assessment is also available.

Additional Information

Guide to Obtaining USGS Information. 1986. US Geological Survey Circular 900. Free upon request from: Books and Open-File Reports Section, USGS, Federal Center, Box 25425, Denver, CO 80222.

Earthquake Data Base: Worldwide

Organization

National Earthquake Information Center

Contact

James Taggart, Geophysicist US Geological Survey

National Earthquake Information Center

MS 967, DFC Box 25046 Denver, CO 80225 Telephone: (303) 236-1506

Telex: (WUTCO) 5106014123ESL UD

Telefax: (303) 236-1519

Description

The National Earthquake Information Center, NEIC, maintains an extensive data base of earthquake locations (hypocenters) covering the period from ancient times to the present. Filmed analog seismograms from the 100+ station Worldwide Standardized Seismography Network are available for the period from 1962 to the present. Digital seismograph data are available for various stations and networks from 1977 to the present.

Format

Hypocenters are available in hard copy, on magnetic tape, and on CD ROM. Analog seismograms are available on microfiche. Digital seismograph data are available on magnetic tape and CD ROM. All data

are furnished at cost.

Availability

Hypocenter files are the most accessible data although other data are also

available.

Additional Information

24-hour Earthquake Information (303) 236-1500.

<u>Ouick Epicenter Determinations, Preliminary Determination of Epicenters, Earthquake Data Report</u> (monthly), and <u>Preliminary Determination of Epicenters Monthly Listing</u> are all available. Contact the NEIC for further

information.

Earthquake Engineering

Organization

Earthquake Engineering Research Institute

Contact

Earthquake Engineering Research Institute

6431 Fairmount Ave., Suite 7 El Cerrito, CA 94530-3624 Telephone: (415) 525-3668

Description

The Earthquake Engineering Research Institute, EERI, produces slides sets and video tapes on earthquake hazards. EERI provides slide sets on a variety of earthquake topics: Armenia Earthquake, Earthquake Resistant

Design, Dynamics of Structures, and Nonstructural Damage.

Format

Slide sets and video tapes.

Availability

All orders must be prepaid. Orders within California should include a 7% sales tax; those outside the US should include a 5% shipping charge.

Earthquake Engineering

Organization National Information Service for Earthquake Engineering

Contact

Ruth Denton, Editor

National Information Service for Earthquake Engineering

Building 451, Richmond Field Station University of California at Berkeley

1301 South 46th Street Richmond, CA 94804 Telephone: (415) 231-9413

DescriptionEarthquake Engineering Abstracts distributes the only comprehensive

annual collection of abstracts and citations of current world literature pertinent to the fields of earthquake engineering and earthquake hazard mitigation. The abstracts are available in printed form, on magnetic media, as well as on-line. Each year more than 2,000 new items are added.

Abstracts of technical papers, research reports, books, codes and conference proceedings are obtained from 140 technical journals and publications in 24

countries.

Format Hard copy (twice yearly) and on-line data base.

Availability Contact Ruth Denton.

Additional

Information Abstract Journal in Earthquake Engineering. NISEE. University of

California at Berkeley. Richmond, CA.

Earthquake Engineering

Organization National Center for Earthquake Engineering Research

Contact Patricia Coty, Manager

Information Services Division

National Center for Earthquake Engineering Research

c/o Science and Engineering Library

SUNY-Buffalo 342 Capen Hall Buffalo, NY 14260 Telephone (716) 636-3377 Telex: (716) 636-3379

Description The National Center for Earthquake Engineering Research, NCEER,

supports and enhances earthquake hazard reduction research of more than 80 experts from various disciplines. Specifically, the Center undertakes

studies to improve basic knowledge about earthquakes, engineering practices, and the implementation of seismic hazard mitigation procedures. Since its inception in 1986, NCEER developed a broad program that includes: conducting research; hosting conferences, workshops and seminars; and publishing technical reports and a quarterly newsletter. In addition, NCEER maintains an Information Service that provides a variety of specialized services: computer searches through BRS, Dialog, Accusearch, and the USGS data bases; interlibrary lending and borrowing; microfiche printing and photoduplications; literature compilations and surveys; special reference services upon request; ondemand acquisition of books, periodicals, reports, slide sets, videocassettes, and other publications; and document delivery by courier, postal, electronic mail, Federal Express, UPS, and telefax.

QUAKELINE is NCEER's on-line bibliographic data base. The Information Services Division of the National Center for Earthquake Engineering Research offers bibliographic support for those seeking information on earthquake engineering, earthquake hazards mitigation, disaster preparedness, and related topics.

Format

NCEER's Information Services Division has a large collection of books, journals, technical reports, and audio-visual materials. They also maintain the on-line QUAKELINE bibliographic data base.

Availability

Services are available by telephone, mail, or at NCEER. QUAKELINE is available by application to the NCEER, Information Services Division. The cost is approximately \$20-30 per connect hour.

Additional Information

Quakeline: A Guide to Searching. NCEER. Buffalo, NY.

A Guide to the Information Center. NCEER. Buffalo, NY.

Both are available free of charge

Earthquake Research and Information

Organization

Center for Earthquake Research and Information

Contact

Jill Stevens, Manager Seismic Resources Center

Center for Earthquake Research and Information

Memphis State University Memphis, TN 38152 Telephone: (901) 678-2007

Description

The Center for Earthquake Research and Information, CERI, produces the CERI Quarterly Seismological Bulletin and manages the Seismic Resource

Center. Data are available on seismic activity from two regional seismic networks, the Memphis Area Regional Seismic Network and the Southern Appalachian Regional Seismic Network. Information is also available on the New Madrid seismic zone, earthquake hazard mitigation. CERI also maintains an earthquake education library and speakers' bureau.

Format

Hard copy and audio-visual materials.

Availability

The bulletin is available free of charge. CERI's Seismic Resource Center loans select materials free-of-charge upon request, such as: books, slides, films, video-tapes, models. The center is open Monday-Friday from 8:30 am to 5:00 pm (CST).

Additional Information

CERI Reports. Contact the center for a current listing.

Earthquake, Volcano, and Landslide Hazards Data

Organization

Office of Earthquake Studies

Contact

Robert Wesson, Chief Office of Earthquake Studies US Geological Survey 905 National Center Reston, VA 22092 Telephone: (703) 860-6472

FTS: 928-6472

Description

The Office of Earthquake Studies conducts a program of basic and applied research on earthquakes, volcanoes, and landslides which emphasizes:

- 1) Fundamental Studies designed to acquire and disseminate information on worldwide occurrences of earthquakes, volcanoes, and landslides;
- 2) Alerts, Warnings, Forecasts, and Predictions designed to develop an understanding of the physical processes of earthquakes, volcanoes, and landslides in order to warn the populace of the location, size, time, and probability of impending events;
- Hazard Maps which delineate the spatial and temporal variations of the primary and secondary physical phenomena generated in an earthquake, volcanic eruption, or landslide;
- Risk Assessment for economic losses and loss of life associated with events; and
- Research Applications which foster the application of research results to preparedness and mitigation strategies of state and local governments.

Format

Hard copy reports, instrumental data, microfilm seismograms.

Availability

Hard copy reports, professional papers, bulletins, circulars, maps, and openfile reports, and scientific and technical journals are available. Instrumental data may be obtained through individual investigators, who will generally release it in the Open-File series. Microfilm copies of seismograms are available through the Environmental Data and Information Service of the National Oceanic and Atmospheric Administration in Boulder, CO (see listing in the directory).

Additional Information

Facing Geologic and Hydrologic Hazards: Earth Science Considerations. Walter Hays, Editor, USGS Professional Paper 1240 B, Reston, VA, 1981.

Summaries of Technical Reports Submitted to National Earthquake Hazards Reduction Program. USGS, Office of Earthquake Studies, Menlo Park, CA. Semi-annual progress reports from USGS on grants and contracts projects.

Earthquake Information Bulletin, USGS, Reston, VA. Bi-monthly. \$7.00 per yr. subscription from US Government Printing Office, Washington, DC.

National Earthquake Hazards Reduction Program

Organization

Federal Emergency Management Agency

Geological Survey

National Science Foundation

National Institute of Standards and Technology

Contact

Dennis Kwiatkowski

Federal Emergency Management Agency

500 C Street, SW

Washington, DC 20472 Telephone: (202) 646-2871

Richard Wright

National Institute of Standards and Technology

Building 226, Room 250 Gaithersburg, MD 20899 Telephone: (301) 975-5900

Robert Hanson

National Science Foundation

1800 G Street, NW Washington, DC 20550 Telephone: (202) 357-9545

Robert Wesson, Chief

Office of Earthquakes, Volcanoes, and Engineering

US Geological Survey 905 National Center Reston, VA 22092

Telephone: (703) 648-6714 Telex: 160 443 USGS UT Telefax: (703) 648-6717

Description

The National Earthquake Hazards Reduction Program (NEHRP) was initiated by Congress on October 1, 1977 in order to reduce the risks to life and property within the US from future earthquakes. The program is designed to:

- 1) Conduct earthquake hazard identification and vulnerability analyses;
- 2) Develop seismic design and construction standards;
- 3) Develop an earthquake prediction capability;
- 4) Prepare plans for mitigation, preparedness, and response activities;
- Conduct fundamental and applied research into the causes and implications of earthquake hazards;
- 6) Educate the public about earthquake hazards.

Format

On-line, hard copy, audio-visuals, technical assistance.

Availability

The USGS libraries in Reston, VA, Denver, CO, and Menlo Park, CA have copies of all maps and reports.

Additional Information

Contact NEHRP agencies for publications lists on geologic hazards.

Seismic Hazards at Naval Facilities

Organization

Department of Navy

Contact

Joe Tyrrell, Deputy Chief Engineer

NFACENCOM
Department of Navy

Code 04B0 200 Stovall Drive Alexandria, VA 22332 Telephone: (202) 325-0047

Description

The Navy began a seismic hazards research project in 1970. Through this project the Navy assesses natural hazards at naval facilities. Assessments are carried out in three stages: preliminary evaluation, detailed analysis, and hazard-reduction construction. Twenty-six installations have been

surveyed, including 11,000 buildings, of which 1,300 are being evaluated in greater detail. Studies concentrate on earthquake and tsunami hazards and, to a lesser degree, on site hazards including soil liquefaction.

Format

Hard copy reports of completed studies.

Availability

Reports are available from the Naval Facilities Engineering Command for cost of duplication (about five cents per page). Twenty studies have been completed.

See also the following appendix:

• Geological Survey

Geotechnical Information

Organization

British Geological Survey

Contact

Richard Haworth, Chief Geophysicist

British Geological Survey Nicker Hill, Keyworth Nottingham NG12 5GG

United Kingdom

Telephone: [44] (60) 77 6111 Telex: 378173 BGSKEY G Telefax: [44] (60) 77 6602

Description

The British Geological Survey maintains the National Geoscience Information Service, NGIS. NGIS is a comprehensive information service based on geological, geophysical, and geochemical data both in the United Kingdom and overseas. Some of the data dates back to 1850. Long term

international data sets are principally restricted to the British Commonwealth countries. More recent data sets are worldwide.

Format

Hard copy and digital files contain NGIS on-line information.

Availability

Digital files extracted from NGIS can be transmitted internationally via the UK JANET computer network. On-line access is not yet available.

Additional Information

IGS Consultants in Applied Geology. 1982. Institute of Geological Sciences. Natural Environment Research Council. London.

Geotechnical Information

Organization

National Geophysical Data Center

Contact

Allen Hittleman, Supervisory Geophysicist

National Geophysical Data Center

NOAA, Code E/GC1 325 Broadway Boulder, CO 80303

Telephone: (303) 497-6591

FTS: 320-6591

Description

This collection of North American data includes information on the following topics: earthquake seismology, thermal aspect and austral stress,

topography, magnetics, gravity and satellite imagery.

GEOTECHNICAL DATA

Format

Data are available on compact disc, standard magnetic tape, and diskette.

Availability

Call for prices.

Geotechnical Information

Organization

New Zealand Geological Survey

Contact

I. Speden, Director

New Zealand Geological Survey, DSIR

PO Box 30368 Lower Hutt New Zealand

Description

The New Zealand Geological Survey maintains 125 years of geological data, including 30 years of geodetic data for specialist earth information studies,

volcanology, erosion, landslides, sea level change.

Format

Data are available in manual and computer-based files, record field sheets,

reports, and via technical assistance.

Availability

Cost information is available for general use or research.

Additional Information

Bibliographies of geology and Natural Hazards in New Zealand. 1984. National Commission on Natural Hazards. UNESCO. I. Speden, M.

Geotechnical Information

Organization

Pan American Institute of Geography & History

Contact

J. Tanner, President

Pan American Institute of Geography & History

RR #1

Union, Ontario NOL 2L0

Canada

Telephone: (519) 631-3190

Telefax: 633-4997

Description

The Pan American Institute of Geography & History maintains general geophysical information on solid earth geophysics, oceans and atmosphere, and solar terrestrial physics. The institute supports ongoing activities throughout all of the Americas and the Caribbean. Current interests

GEOTECHNICAL DATA

include geophysical maps and hazards-related research. Within five years, the institute plans to have continental scale maps available for Latin America and the Caribbean in gravity, magnetics, and seismic risk.

Format

Hard copy publications including Revista Geofisica, a journal appearing 2-3

times yearly.

Availability

Information is available through:

Secretary General Paigh Apartado Postal 18879 11870 Mexico City

Mexico

Additional Information

An index of publications is available through the secretary general.

See also the following appendix:

Geological Survey

Landslide Hazards Reduction Program

Organization

Office of Earthquakes, Volcanoes, and Engineering

Contact

Gerald Wieczorek, Manager

Landslide Hazards Reduction Program

Office of Earthquakes, Volcanoes, and Engineering

US Geological Survey 905 National Center Reston, VA 22092 Telephone: (703) 648-6

Telephone: (703) 648-6713

FTS: 959-6713

Description

The Office of Earthquakes, Volcanoes, and Engineering is an information source for landslide studies within the USGS. There are currently 18 active projects which examine landslides. Landslide studies are currently concentrated in the Rocky Mountain region, California, and the Appalachian region. Specifically, these projects include one study which

examines landslides caused by earthquakes.

Format

Results of completed studies are published as USGS publications or may be published in journals of various professional societies.

Availability

These study results are available for purchase through the US Government Printing Office, Washington, DC or the Publications Division, US Geological Survey, Reston, VA. Publications include maps at a variety of scales and bulletins or professional papers that describe specific areas or processes. Bibliographic data for many landslide publications are maintained in the Landslide Information Center, USGS, MS 966 Box 25046, Denver, CO.

Additional Information

Bibliography of US Landslide Maps and Reports. C. Alger and E. Brabb. USGS. Open-File Report 85-585. 1985.

Goals and Tasks of the Landslide Part of a Ground-Failure Hazards Reduction Program. USGS. USGS Circular 880. 1982.

<u>Landslides--Analysis and Control: Transportation Research Board Special Report 176.</u> R. Schuster, and R. Krizek, Eds. National Academy of Sciences. Washington, DC. 1978.

Landslide Information

Organization

Bureau of Reclamation

Contact

Ferne Studer, Operations & Maintenance Technician

US Bureau of Reclamation

Denver Federal Center, Code D-5210

PO Box 25007 Denver, CO 80225

Telephone: (303) 236-8087

FTS: 776-8087

Description

The Landslide Register contains data on significant landslides located at or near Bureau of Reclamation dam and reservoir sites. Data include slide characteristics, activity, and risk upon failure. Bureau of Reclamation personnel are the primary sources of the data. The Register covers the 17

Western States.

Format

Hard and computer copy.

Availability

All information is available from the Bureau of Reclamation Regional

Offices and the Denver Office at the Denver Federal Center.

Additional

Information The Register is updated annually.

Landslide Research

Organization

International Landslide Research Group

Contact

Earl Brabb, Geologist

International Landslide Research Group

3262 Ross Road Palo Alto, CA 94303 Telephone: (415) 329-5140

Description

The International Landslide Research Group publishes a worldwide newsletter, <u>Landslide News</u>, about people conducting landslide research.

Format

Hard copy.

Availability

The newsletter is published at irregular intervals. The price for three issues

is \$2 in the US and \$4 for all other countries.

Landslide Research

Organization

Victoria Geological Survey

Contact

J. Neilson, Principal Geologist

Department of Industry, Technology and Resources

Victoria Geological Survey 228 Victoria Parade

East Melbourne, Victoria 3002

Australia

Telephone: [61] (3) 665-0576 & 665-0600

Telefax: [61] (3) 663-6325

Description

The Victoria Geological Survey performs studies of slope stability having to do with landslides and other related hazards. It also provides advice on

subsidence over former mining areas.

Format

Hard copy, microfiche, and technical assistance.

Availability

Information is available on a written or telephone request basis.

Sinkhole Research

Organization

Florida Sinkhole Research Institute

Contact

Barry Beck, Director

Florida Sinkhole Research Institute

Research Building A

University of Central Florida

Orlando, FL 32816

Telephone: (407) 281-5644

Description

The Florida Sinkhole Research Institute was founded in 1982 at the University of Central Florida in Orlando following the catastrophic impact of the Winter Park sinkhole. The Institute maintains data on more than 1,500 collapses in Florida; provides educational materials; and publishes

research reports.

Format

Hard copy reports, computer based inventory of sinkholes in Florida, and

audio-visual materials.

Availability

Contact the Institute at the above address.

Additional Information

Sinkholes in Florida: An Introduction. B. Beck, R. Kersten, and T. Colburn. 1986. Orlando, FL: The Florida Sinkhole Research Institute at the University of Central Florida. Report No. 85-86-4.

See also the following appendix:

Geological Survey

Radon Data

Organization

Environmental Protection Agency

Contact

Radon Division

Office of Radiation Programs

US Environmental Protection Agency

401 M Street, SW Washington, DC 20460 Telephone: (202) 475-9600

Description

Most of the regulatory responsibilities and program activities for which the Environmental Protection Agency, EPA, has jurisdiction do not come under the category of natural hazards. An exception is radon. The Radon Division of the EPA has developed publications on radon facts, radon reduction in homes, measurement protocols, reference manuals, and survey

results.

Format

Hard copy reports.

Availability

Call or write the Radon Division for further information.

Additional Information

Radon Reference Manual. September 1987. Publication: 520/1-87-20. US

EPA. Washington, DC 20460.

See also the following appendix:

• EPA

Tsumani Data

Organization

National Geophysical Data Center

Contact

Patricia Lockridge, Geophysicist National Geophysical Data Center

NOAA, Code E/GC 4 325 Broadway

Boulder, CO 80303 Telephone: (303) 497-6337

FTS: 320-6337

Telex: 592811 NOAA MASC BDR

Description

Tsunami Data:

The National Geophysical Data Center maintains a variety of tsumani data. Historic tsunami data consist of about 6,600 records from 49 BC to present on wave heights, damage, travel times, arrival times, and number of deaths, plus earthquake epicenters, magnitudes, and depths. The center also maintains tsunami maps, photographs and slide sets, tsunami catalogs, tide

gage records and bathymetric data.

Format

Hard copy publications, magnetic tapes, diskettes, maps, photographs,

slides, and microfiches.

Availability

Contact the center for a list of available products and data.

Description

Tsunami Digital Data Base:

The Tsunami Digital Data Base contains data on about 2,000 tsunami events worldwide including date of occurrence, earthquake latitude, longitude and magnitude, depth of focus, tsunami magnitude, intensity,

affected areas, wave heights, damage and deaths.

Format

Magnetic tape, diskette, technical assistance, maps, publications.

Availability

A magnetic tape copy of an entire file is \$90. The entire file on IBM-PC compatible 5 ¼" high density floppy diskette is \$30. Retrievals (\$115), wall

maps (\$5-10), publication prices vary (1988 prices).

Description

Tsunami Mareograms:

The Tsunami Mareograms or tsunamigrams contain tide gage records of tsunamis recorded at US tide stations including Alaska, Hawaii, South Pacific islands, and the coastal US. They contain a 5 day span of wave data

with adequate gage quiet time.

Format

35mm microfiche

TSUMANI

Availability

Copies of records on 35mm microfiche are \$4 plus \$10 handling charge

(1988 price).

Additional Information

Tsunami Data. DE-1201. NOAA. National Geophysical Data Center.

Boulder, CO 80303. 1988.

Tsunami Information

Organization

International Tsunami Information Center

Contact

George Pararas-Carayannis, Director International Tsunami Information Center

PO Box 50027

Honolulu, HI 96850-4993 Telephone: (808) 541-1658 Telex: 984624 (ITIC UD) Telefax: (808) 541-1657

Description

The International Tsunami Information Center maintains an extensive

library of tsunami publications: bibliographies, historical

tsunami data, maps, photograph files, newspaper articles, and early warning

system technology materials.

Format

Hard copy, audio-visuals, and computerized data files.

Availability

Resources are available to visiting scientists. Because the Center's staff is small, a visit to the center is required. The Center is open during normal

working hours.

Additional Information

Bibliographies and a newsletter are available.

Tsunami Research

Organization

Pacific Marine Environmental Laboratory

Contact

Eddie Bernard, Director

Pacific Marine Environmental Laboratory 7600 Sand Point Way NE, Building 3

Seattle, WA 98115-0070 Telephone: (206) 526-6800

Telex: 326005

Description

The Pacific Marine Environmental Laboratory has been a world leader in tsunami research for over 20 years. The Laboratory provides technical assistance on tsunami physical behavior and warning systems. The Laboratory has recorded deep ocean tsunamis measurements with bottom pressure instruments.

Format

Tsunami data, technical reports, journal articles.

Availability

Data and reports available upon request.

See also the following appendices:

- Coastal Zone Management
- National Weather Service
- Sea Grant Programs

Volcano Data Base: US

Organization

Geological Survey

Contact

Dwight Crandell US Geological Survey

Volcano Hazards Assessment Program

Denver Federal Center PO Box 25046, MS 903 Denver, CO 80225

Telephone: (303) 236-1024

FTS: 776-1024

Description

The Volcanic Hazards Assessment Program of the US Geological Survey, USGS, examines active volcanoes in the Cascade Range of Washington, Oregon, California, Alaska, and Hawaii. Studies include down-slope hazards (mudflows, floods, avalanches, etc.), basic stratigraphy, and ash deposition. The program includes the Hawaii Volcano Observatory, which monitors volcanic activity in Hawaii.

Format

Printed reports, open-file information, professional papers, bulletins and maps are available from the USGS retail outlets in Reston, VA, Denver,

CO, and Menlo Park, CA.

Availability

Cost varies depending upon material.

Additional Information

Selected Bibliography: Volcano Hazards Project. D. Crandell. USGS.

Denver, CO.

Hawaii Volcano Observatory: Thomas Wright, Head Geologist Hawaii Volcano Observatory Hawaii National Park, HI 96718 Telephone: (808) 967-8819

Volcano Data Base: Middle America

Organization

Instituto Costarricense de Electricidad

Contact

Sergio Mora C., Chair Department of Geology

Instituto Costarricense de Electricidad

Apdo. 10032-1000

San Jose Costa Rica

Telephone: [506] 207141 Telex: [506] 314737

Description

The Instituto Costarricense de Electricidad has wide experience in the assessment of natural hazards in Costa Rica. This experience is aided by the Institute's relationship with the Comision Nacional de Emergencias and the Organization of the American States. Research reports are available on

earthquake and volcano hazards in Middle America.

Format

Hard copy.

Availability

Contact Sergio Mora C. There are three conditions for provision of research reports: 1. cover the cost of photocopies and mail, 2. respect the credits of the publication, 3. engage in a mutual sharing of research

reports.

Additional Information

Publications list of the Institute.

Volcano Data Base: Worldwide

Organization

Smithsonian Institution

Contact

Lindsey McClelland, Museum Specialist

SEAN, NHB MRC 129 Smithsonian Institution Washington, DC 20560 Telephone: (202) 357-1511

FTS: 357-1511

Telex: 89599 (SCINET WSH) Telefax: (202) 357-2476

Description

The Smithsonian Institution maintains descriptive reports on current volcanic activity, large and/or damaging earthquakes, and meteorites from 1968 to 1975 (Smithsonian Center for Short-Lived Phenomena). Since 1975 the Smithsonian Institution has maintained the Scientific Event Alert

VOLCANO

Network, SEAN. Data are abstracted from SEAN for the <u>Bulletin of Volcanology</u>, <u>Geotimes</u>, and <u>EOS</u> (American Geophysical Union). The primary sources of information are SEAN correspondents, most of whom are research scientists and public officials.

The Smithsonian Institution also maintains two electronic bulletin boards:

- 1) KOSMOS -- the electronic bulletin board for SEAN, and
- 2) OMNET -- the electronic bulletin board for VOLCANOES.ETC.

Hard copy bulletins, computer volcano data, technical services.

Monthly bulletins summarize events, and are sent to more than 1,000 correspondents who participate in SEAN. Bulletins are available through the American Geophysical Union, 2000 Florida Avenue NW, Washington, DC 20009. The subscription fee is \$18 per year in the US and \$24 per year outside of the US. News of events may be telephoned or cabled to scientists likely to study the event. Volcano data are archived on computer; documents are filed in the Department of Mineral Sciences. The two electronic bulletin boards may be accessed by contacting: KOSMOS, American Geophysical Union, 2000 Florida Avenue, NW, Washington, DC 20009, (800) 424-2488 & (202) 462-6903; OMNET, 70 Tonawanda Street, Boston, MA 02124, (617) 265-9230.

Additional Information

Format

Availability

Scientific Event Alert Network Bulletin. Smithsonian Institution. Washington, DC. Monthly.

See also the following appendix:

Geological Survey

METEOROLOGICAL HAZARDS

Climatological Data

Organization

Climate Analysis Center

Contact

Jim Laver, Meteorologist Climate Analysis Center

Room 805, World Weather Building

Washington, DC 20233 Telephone: (301) 763-8071 Telefax: (301) 763-8381

Description

The National Oceanic and Atmospheric's, NOAA, Climate Analysis Center, CAC, maintains the Climate Assessment Data Base which contains daily summary meteorological and climatological parameters for over 6,000 global locations spanning the most recent 1,000 days. The Center produces the Weekly Climate Bulletin, a free publication indicating current surface climate conditions in the US and around the world. The bulletin's primary focus is anomalies of precipitation and temperature, which are defined from summarized preliminary operational data received via the Global Telecommunication System.

The CAC also provides a climate dial-up computer system. This system includes a number of data sets and other products to aid users working in such areas as agriculture, energy, water resources, forestry, and climate research. The system is menu driven, and a user can choose information selectively. Users must have a receiving device--anything from a simple terminal to a computer.

In addition, CAC offers information on severe short-term US climate anomalies through the NOAA <u>Drought Advisory</u>. This series of special advisories are updated weekly, and other agencies contribute to them (e.g., National Weather Service, National Climatic Data Centers, and state climatologists).

Format

Data are on-line, hard copy, audio-visual, and technical assistance.

Availability

The Weekly Climate Bulletin is free. The Climate Dial-Up Service costs \$48-\$600, depending on usage and is available 24 hours.

Additional Information

<u>Drought Advisory Series</u>, <u>Weekly Climate Bulletin</u>, <u>Weekly Weather and Crop Bulletin</u>, and Special Advisories.

Requests for copies of the <u>Drought Advisory</u> should be directed to the National Weather Service, Public Affairs Office, 8060 13th Street, Room 618, Silver Spring, MD 20910, (301) 427-7622.

Climatological Data

Organization

Climate Impact Assessment Division

Contact

Larson Lambert, Chief

Climate Impact Assessment Division

Assessment and Information Services Center National Oceanic and Atmospheric Administration

1825 Connecticut Avenue NW, Suite 512

Washington, DC 20235 Telephone: (202) 673-5381

FTS: 673-5381

Description

The Climatic Impact Assessment Division provides tailored assessment services and products. These services address the impact of climatic change on national, social, and economic programs and policies.

Format

Hard copy and technical assistance.

Availability

Contact the Climatic Impact Assessment Division for further information.

Climatological Data

Organization

High Plains Climate Center

Contact

Kenneth Hubbard, Director High Plains Climate Center

237 Chase Hall

University of Nebraska Lincoln, NE 68583 Telephone: (402) 472-6706 Telefax: (402) 472-2410

Description

The Automated Weather Data Network, AWDN, provides hourly and daily weather measurements from about 70 stations in 7 states. The earliest data are from 1981. The High Plains Climate Center also maintains WEATHER data base (Weather Effects Analyzed for Tracking Heat,

WEATHER data base (Weather Effects Analyzed for Tracking Heat, Evapotranspiration, and Rainfall). WEATHER is a dial-up system for retrieving all types of weather and climate-related information.

Format

On-line.

Availability

Hourly and daily weather data are furnished on diskette at a minimal charge for AWDN. WEATHER can be accessed at (402) 472-6615 via 300

or 1200 dial-up.

Additional Information

Hubbard, K.G., N.J. Rosenberg and D.C. Nielsen. 1983. "An Automated Weather Data Network in Support of Agricultural Operations." <u>Journal of Water Resources Planning and Management</u>. 109: 213-222.

Climatological Data

Organization

International Institute for Applied Systems Analysis

Contact

A. Solomon, Manager Biosphere Project

International Institute for Applied Systems Analysis

A-2361 Laxenburg

Austria

Telephone: [43] 2236-715210

Telex: 079137 iiasaa

Description

The Biosphere Project designs, generates, and applies models of biosphere functioning in order to determine the human impact on the biosphere.

Format

On-line for in-house use. Output is available in hard copy and interactive

CRT.

Availability

Requires a trained technician.

Climatological Data

Organization

National Center for Atmospheric Research

Contact

Roy Jenne, Manager of Data Support National Center for Atmospheric Research

PO Box 3000 Boulder, CO 80307 (303) 497-1215 Telex: 989-764 Telefax: (303) 497-1137

Description

The Data Support Section of the National Center for Atmospheric Research, NCAR, maintains a large, organized archive of computer-accessible research data which is available to scientists around the world. The archive, which contains more than 300 distinct data bases, provides information to major national and international atmospheric and oceanic research projects. Sample data bases include information on: surface,

upper air, and climatological data, precipitation and water data, geophysical data, satellite data, and global analyses. These data span long periods of record in both analyses and observations and come as single reports,

monthly averages, and digital data.

Format On-line use for select users. Others can obtain data at cost.

Availability There is a fee to copy tapes. NCAR concentrates on the needs of the

research community and not the general public.

Additional information

"Data Availability at NCAR." Roy Jenne. Updated each 12-24 months.

"Data Sets for Meteorological Research." Roy Jenne. NCAR TN/IA-111,

1975.

Institutional Directory: Climate-Related Impacts Network. 1989. National

Center for Atmospheric Research. Boulder, CO.

Climatological Data

Organization

United Nations Environment Program

Contact

P.E.O. Usher

Environmental Assessment Service United Nations Environment Program

PO Box 30552 Nairobi, Kenya

Description

The United Nations Environment Program provides a catalog of on-going and planned national or international research programs on climate impacts. Part of the World Climate Impact Study Programme of the World Climate Programme, the catalog enhances international cooperation and

communication among researchers.

Format

Hard copy.

Availability

Contact P.E.O. Usher.

Meteorological Data

Organization

Department of Army

Contact

Richard Himebrook, Technology Transfer Coordinator, SLCAS-DP-P

Commander/Director

US Army Atmospheric Sciences Laboratory White Sands Missile Range, NM 88002-5501

Description

The US Army Atmospheric Sciences Laboratory maintains various meteorological parameters associated with research and development. The parameters span the fields of climatology, test specific meteorological data, and technical reports. Information is available on hazard assessments, meteorological sensors, meteorological data, atmospheric motion, atmospheric sciences, atmospheric modeling, climatology, ice forecasting, satellite meteorology, physical meteorology, seismic detection, and air

pollution sampling.

Format

Hard copy.

Availability

Most data is restricted to government agencies and their contractors. For more information contact the above address.

Meteorological Data

Organization

National Weather Service

Contact

E. Hansen, Chief

Water Management Information Division

National Oceanic and Atmospheric Administration

National Weather Service Office of Hydrology Silver Spring, MD 20910 Telephone: (301) 427-7543

FTS: 427-7543

Description

The Office of Hydrology provides a variety of data on precipitation frequencies and amounts, mostly for the US. These data include: depth, area, duration, and greatest known storm rainfall for 6, 12, 24, and 48 hours. Data also include: areal and temporal precipitation distributions, excessive and maximum observed rainfall for specific regions, and precipitation probabilities and frequencies.

Format

Hard copy.

Availability

Printed reports are available from the National Technical Information Service, Springfield, VA, or NOAA. Some reports are out of print.

Meteorological Data

Organization

Oklahoma Climatological Survey

Contact

Ellen Cooter, Assistant State Climatologist

Oklahoma Climatological Survey

710 Asp St, Suite 8 Norman, OK 73019 Telephone: (405) 325-2541

Description

The Oklahoma Climatological Survey maintains a wide variety of meteorological, hydrological and related data series which support climate impact studies throughout the US. The Cooperative Meteorological Network, a complete series of cooperative network observations for the entire US period of record, provides data which are available as time-series, space arrays, or statistically interpolated to create uninterrupted, continuous data time series of maximum temperature, minimum temperature, and

precipitation.

Format

All data are digitized and are available in standard IBM format tapes at 1600 or 6250 BPI density. Data may be remotely accessed via the University of Oklahoma IBM mainframe.

Availability

Data may be accessed directly by the client via the University of Oklahoma's IBM mainframe, by Oklahoma Climatological Survey personnel at the client's request, or the client can purchase all or part of the data set. Time and space data cost \$100/reel. On the average, at 6250 BPI there are two tape reels per state. Interpolated data cost approximately \$200/state at one reel per state.

Additional Information

Sladewski, T. May 1986. <u>Data Archives of the Oklahoma Climatological Survey</u>. Oklahoma Climatological Survey.

Meteorological Data

Organization

Tennessee Valley Authority

Contact

Wayne Hamberger, Meteorologist Tennessee Valley Authority Data Systems 524 Union Ave (EB 3W 307A)

Knoxville, TN 37902 Telephone: (615) 632-4222

Description

The Tennessee Valley Authority's, TVA, obtains meteorological data from tall towers with multiple levels of wind and air temperatures, located at power plants throughout the Tennessee Valley Region. Dewpoint, solar radiation, precipitation, and atmospheric pressure data are also available. Length of record varies according to location, and parameter type ranges from 1966 to present. Data frequency are averaged hourly.

TVA obtains precipitation data from standard 8-inch and tipping bucket rain gauges located throughout the Tennessee Valley watersheds. Length of record ranges from 1934 to the present, and the number of gages ranges from 200 to over 600. Data frequency includes hourly, six-hourly, daily, and monthly totals depending upon location.

Format

The TVA mainframe computer data base or the Environmental Protection Agency's Aerometric Information Retrieval System archives meteorological data, depending on time and location. Magnetic, microfiche and hard copy formats are available.

Precipitation data are published daily, monthly, and annually as well as in summarized data in hard copy from 1934 to 1980. Unpublished daily totals from May 1980 to June 1982 are available in hard copy. Data are archived on TVA mainframe computer data base from June 1982 to September 1986, with magnetic or hard copy formats available. Daily precipitation totals from 1934 to present are available in hard copy. Six-hourly and daily precipitation totals from October 1986 to present are available on the departmental minicomputer data base and are available in magnetic or hard copy formats.

Availability

All data bases are accessible by TVA Data Systems personnel during normal business hours. Nonprofit cost recovery program is charged to clients for materials and labor.

Additional Information

"Precipitation in the Tennessee River Basin," published monthly from 1934 to April 1980 by the Tennessee Valley Authority.

See also the following appendices:State ClimatologistsNOAA Climate Centers

Coastal Management Data

Organization

Army Corps of Engineers

Contact

John Housley

Planning Division, Civil Works Directorate

Office of the Chief of Engineers US Army Corps of Engineers Washington, DC 20314 Telephone: (202) 272-0169

Description

In 1970 the US Army Corps of Engineers conducted the National Shoreline Study. This Study examined damage to shorelines. The Corps produced a final report of the Study, useful to researchers, and a series of three guidebooks for private property owners, engineers and contractors, and

local government officials.

Format

Hard copy and microfiche.

Availability

Hard copies and microfiche of the National Shoreline Study and the Low Cost Shore Protection Study are available from the National Technical Information Service, Springfield, VA 22161. Prices are approximately \$1.00

for microfiche and \$3.00 to \$6.00 for hard copies.

Additional Information

Report of the National Shoreline Study, Corps of Engineers, Department of the Army, Washington, DC, 1971. Summary volume and 11 supporting documents. Out of print.

Low-Cost Shore Protection, Corps of Engineers, Department of the Army, Washington, DC 1981. Final Report and 3 guidebooks. Out of print.

Coastal Management Information

Organization

Coastal Zone Management Information Center

Contact

Sallie Cauchon, Director

Office of Ocean and Coastal Resource Management Coastal Zone Management Information Center 1825 Connecticut Avenue, NW, Room 729

Washington, DC 20235 Telephone: (202) 673-5115 FTS: (202) 673-5115

Description The Coastal Zone Management Information Center collects and publishes

information relating to coastal problems in the thirty-four coastal states and the Great Lakes region. Under the Coastal Zone Management Act of 1972, the government gives aid to states that prepare an approved plan for coastal areas management. The Center provides plans and supporting documents of the twenty-nine states that have submitted approved plans. The Center also maintains a photocopy file of magazine and newspaper articles on

natural hazards.

Format Printed reports and miscellaneous documents are available for reference in

the Information Center.

Availability Contact the Coastal Zone Management Information Center for further

details.

Coastal Management Information: Great Lakes Region

Organization

Center for the Great Lakes

Contact

Ann Lindsay, Information Specialist

Center for the Great Lakes

435 North Michigan Avenue, Suite 1408

Chicago, IL 60611

Telephone: (312) 645-0901

Description

The Center for the Great Lakes views the Great Lakes as an irreplaceable asset which forms the foundation of a strong regional economy and quality of life. That potential can be realized only through a vigorous commitment to protecting and developing this unique natural resource. Therefore, the Center works to:

- Foster regional cooperation among political, business, and environmental leaders on both sides of the US/Canadian border;
- 2) Identify critical natural resource and economic issues;
- 3) Conduct objective, concise analysis of these issues to bring about informed action by decision makers;
- 4) Promote public understanding and awareness of opportunities for action.

Format

Library resources in hard copy and technical assistance via workshops and conferences.

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Availability

Contact Ann Lindsay for further information.

Coastal Management Information: Navy

Organization

Department of Navy

Contact

Larry Gadbois, Oceanographer US Naval Ocean Systems Center Marine Environmental Support Office

Code 522

San Diego, CA 92152-5000

Telephone: (619) 533-2804 & 533-5330

Telex: (619) 553-2667

Description

The Marine Environmental Support Office is available to provide consultation, referrals, data and information, documentation and field support in the areas of environmental impact, hazardous waste, and the

Navy.

Format

Request information via phone, letter or electronic mail (MILnet:

gadbois@NOSC.mil).

Availability

Confine phone calls to normal working hours.

Coastal Management Information: Red Tide

Organization

International Red Tide Information and Assistance Service

Contact

Alan White, Marine Science Advisor

International Red Tide Information and Assistance Service

Sea Grant Program

Woods Hole Oceanographic Institution

Woods Hole, MA 02543

Telephone: (508) 548-1400, ext. 2289

Telex: 951679

Telefax: (508) 548-1400, ext. 6208

Description

The International Red Tide Information and Assistance Service, IRITAS, maintains an international data base on red tide and toxic algal bloom researchers and managers. This data base expedites international information and assistance with red tide emergencies, particularly in

developing countries.

Format

Hard copy.

Availability

Contact Alan White for further information.

Marine Education

Organization New Jersey Marine Sciences Consortium

Contact William Gordon, Vice President for Programs

New Jersey Marine Sciences Consortium

Sandy Hook Field Station **Building 22**

Fort Hancock, NJ 07732 Telephone: (201) 872-1300

Description The New Jersey Marine Sciences Consortium strives to make New Jersey a

> marine-literate society. The consortium comprises colleges in the New Jersey, New York, and Pennsylvania area, and operates two field stations at Sandy Hook and Seaville. Each is equipped to do a variety of estuarine and

coastal sampling and survey work. The consortium's functions are:

undergraduate college education, precollege education, provision of facilities and equipment to member institutions for research and education, grants and contract brokerage, public awareness, alliance for a larger voice in the affairs of the State of New Jersey, with particular reference to its coastal

and estuarine areas.

Format Technical and educational services, including classes.

Availability Contact the consortium for further information.

Additional Information

Annual Report. 1988. New Jersey Marine Sciences Consortium. Fort

Hancock, New Jersey.

Wetlands Information

Organization Center for the Environment and Natural Resources

Contact Steven Brown, Director

Center for the Environment and Natural Resources

Council of State Governments

PO Box 11910 Lexington, KY 40578 Telephone: (606) 231-1866

Description WETLANDS is a data base established by the Center for the Environment

and Natural Resources with support from the US Environmental Protection Agency's Office of Wetlands Protection. This national data base lists state wetland protection programs and contacts. The data base contains a

directory of 475 state wetland officials as well as information regarding over

350 state programs affecting wetlands. The programs are catalogued according to 13 program types (acquisition, permits, taxation, etc.) and 21 attributes (name, legal authority, values protected, etc.). Users may retrieve

data using any combination of these characteristics.

Format

On-line.

Availability

This electronic record is available to anyone interested in state wetland protection efforts who has access to a computer and modem.

Additional Information

To obtain a user name, password, and a Wetlands User Manual, contact

Steven Brown.

Wetlands Information

Organization

Fish and Wildlife Service

Contact

1-800-USA-MAPS

Description

The US Fish and Wildlife Service and the US Geological Survey provide a toll-free number to call for wetlands data. Compliments of Fish and Wildlife's National Wetlands Inventory and USGS's National Cartographic Information Center, users can now dial 1-800-USA-MAPS to order any of over 10,000 highly detailed wetlands maps. Maps cover 45% of the lower 48 states, including 85% of their coastal zones, and 12% of Alaska. Customers provide the name of the state or town for which they seek information, and if possible, the name of the USGS quadrangle map that covers the area in question. The caller is then told whether the request can be filled, and how to order the map.

Format

Telephone map service.

Availability

Maps are mailed within five working days of the call.

Additional Information

Call 1-800-USA-MAPS for further information.

Wetlands Information

Organization

Washington Department of Ecology

Contact

Director

Wetlands Section

Shorelands and CZM Program Washington Department of Ecology

Mail Stop PV-11 Olympia, WA 98504 Telephone: (206) 459-6774

Description

Following a 1986 wetlands conference, the Washington Department of Ecology established a data base of wetland experts and literature. The Resource Guide identifies more than 200 experts who may be consulted by planners, land use managers, public officials, and scientists in related fields. The Wetlands Bibliography of Technical Literature lists more than 750 citations of wetland literature pertaining to the Pacific Northwest.

Format

Hard copy.

Availability

Contact the Wetlands Section.

Additional Information

The Department of Ecology also is interested in updating its guide with names of additional experts in matters related to Pacific Northwest wetlands. Contact the Wetlands Section to add information to the guide.

See also the following appendices:

Coastal Zone Management

Agricultural Data: US

Organization

Federal Crop Insurance Corporation

Contact

Beth Huffman, Coordinator **Actuarial Information Center Actuarial Statistics Division**

Federal Crop Insurance Corporation

9435 Holmes

Kansas City, MO 64131 Telephone: (816) 926-7861 FTS: (816) 926-7861

Description

The Federal Crop Insurance Corporation maintains information on the amount of assistance issued by state and county for crop loss. Crop loss conditions include drought, freeze, insects, and disease. The data cover regions eligible for insurance in the US from 1948 to present.

Format

Computerized tape copies for current data, computer printouts, diskettes, and/or hard copy summaries are available at cost of processing and/or duplication.

Availability

Contact:

Vondie O'Connor, Jr., Director **Actuarial Statistics Division** Federal Crop Insurance Corporation

US Department of Agriculture

PO Box 419293

Kansas City, MO 64141 Telephone: (816) 926-7910 FTS: (816) 926-7910

Additional Information

Cause of Loss Data, Federal Crop Insurance Corporation, US Department of Agriculture, Kansas City, MO. This document lists causes of crop damage at various levels. Summaries of these data may be received upon request.

Federal Crop Insurance Corporation: Information Products Catalog. Actuarial Statistics Division. Federal Crop Insurance Corporation. This catalog lists relevant reports on the Federal Crop Insurance Corporation.

DROUGHT

Agricultural Data: Worldwide

Organization World Agricultural Outlook Board

Contact Norton Strummen, Chief Meteorologist

Room 5133 S. Building US Department of Agriculture Washington, DC 20250 Telephone: (202) 447-9805 Telex: (202) 472-5805

Description The World Agricultural Outlook Board maintains crop-related data, such as

crop yields and climate profiles. It produces two publications: Major Crop

Areas and Climate Profiles.

Format Hard copy.

Availability One copy of a publication will be sent upon request. Additional copies may

be purchased from the Government Printing Office.

Drought Index

Organization Climate Analysis Center

Contact Thomas Heddinghaus, Meteorologist

Agricultural Weather Station Climate Analysis Center

NOAA/USDA Agricultural Weather Facility

USDA South Building, Room 5844

Washington, DC 20250

Description The Palmer Drought Severity Index relates climate and weather to

prolonged and abnormal soil moisture deficiencies affecting water sensitive economies in the US. The index is useful in delineating disaster areas and indicating the availability of irrigation water supplies, reservoir levels, range conditions, amount of stock water, and potential intensity of forest fires. The index is disseminated in the Weekly Weather and Crop Bulletin, which is published by the NOAA/USDA Joint Agricultural Weather Facility and through the Climate Analysis Center's Climate Dial-Up System. Historical values are computed and archived by NOAA's National Climatic Data

Center in Asheville, NC.

Format Maps of historical Palmer Drought Severity Indices are available from

NCDC on a monthly basis across the US in two atlases for 1895-1983. Seven categories of drought are delineated by various thresholds of dryness and wetness. The maps illustrate the spatial and temporal variability of

drought, and prove useful to water resource managers, economists, hydrologists, meteorologists, climatologists, and geographers.

Availability

Copies of the atlas for the period 1895-1930 are \$12.50 and the cost is \$17.50 for the period 1931-1983. The two atlases and four related drought atlases are available in a set for \$75. There is a \$5 handling fee. The data used in constructing these maps are also available in digital form by writing to the: National Climatic Data Center, Federal Building, Asheville, NC 28801-2695, (704) 259-0682 and requesting: Historical Climatology Series 3-10, Atlas of Monthly Palmer Drought Severity Indices (1895-1930) for the Contiguous US, and/or Historical Climatology Series 3-11, Atlas of Monthly Palmer Drought Severity Indices (1931-1983) for the Contiguous US.

Computerized tapes are also available.

Additional Information

Maps of near-real time Palmer Drought Severity Indices are published in the Weekly Weather and Crop Bulletin which can be obtained at a cost of \$35 (domestic), \$50 (foreign) payable to US Department of Commerce, NOAA. Send check and address to: Weekly Weather and Crop Bulletin, USDA South Building, Room 5844, Washington, DC 20250, or call (202) 477-7017

The index and related parameters in tabular form are available in near-real time on CAC's Climate Dial-Up System. The system is menu driven and password accessed. Telephone access requires a modem and relatively simple user terminals (e.g. personal computers) capable of receiving at 300, 1200, or 2400 baud. For information call (301) 763-8071.

References: Technical Procedures Bulletin, Series No. 358, <u>Drought Severity (Palmer) Index</u>, National Weather Service, NOAA, Silver Spring, MD, 1985.

Meteorological Drought, Weather Bureau Paper No. 45, National Weather Service, NOAA, Silver Spring, 1965.

Drought Information

Organization

School of Renewable Natural Resources

Contact

Pamela Hathaway School of Renewable Natural Resources Biological Sciences East 325 University of Arizona Tucson, AZ 85721 Telephone: (602) 621-5647

DROUGHT

Description The Severe Sustained Drought Project, SSD, provides baseline information

on the probability, frequency, and severity of drought. The project also examines the capability of existing infrastructural and institutional systems to respond to drought. The project outlines alternative drought

to respond to drought. The project outlines alternative drought management options. The project also highlights priorities and

opportunities for additional drought-related research.

Format Technical assistance.

Availability The SSD project corresponds with researchers and other interested parties

about drought in general and the SSD project.

Additional Information

Contact Pamela Hathaway for further information.

Drought Information: International

Organization

International Drought Information Center

Contact

Jan Schinstock

International Drought Information Center

Center for Agricultural Meteorology and Climatology

236 L.W. Chase Hall University of Nebraska Lincoln, NE 68583-0728 Telephone: (402) 472-3679

Description

The University of Nebraska at Lincoln established the International Drought Information Center, IDIC, to better understand the problem of drought. The Center strives to improve communication about prediction, monitoring, impact assessment, adjustment and adaptation, and planning and response to drought. The specific objectives of the IDIC are to:

- Collect, analyze, and disseminate information on current episodes of drought and its impacts; response, mitigation, and planning activities of governments and international organizations; research results and the development and application of new technologies to manage drought; and publications and conferences;
- Train persons from developed and developing countries in the science of drought planning and management; and
- Stimulate and coordinate drought-related activities, including information flow about current drought conditions and impacts, between the Regional Climate Centers in the US.

The IDIC publishes <u>Drought Network News</u>, a free newsletter that summarizes drought conditions in various parts of the globe, discusses drought impacts, and reviews planning/response activities worldwide. The

DROUGHT

Center also offers a series of regional training seminars on drought management and planning techniques to be carried out in various developing nations.

Format

Workshops, newsletter.

Availability

Contact Jan Schinstock.

See also the following indices:

- Soil Conservation
- Land Grant Extension Services

Dams, Dikes and Reservoirs

Organization Bureau of Reclamation

Contact Mary Laird

US Bureau of Reclamation

Denver Federal Center, Code D-5442

PO Box 25007 Denver, CO 80225

Telephone: (303) 236-8318

FTS: 776-8318

Description This data base is a compilation of all Bureau of Reclamation storage dams,

diversion dams, dikes, and reservoirs. It contains data on size of dam and

reservoir and the date completed.

Format Hard copy and computer tapes.

Availability Call or write the Bureau of Reclamation.

Flood Damage Analysis

Organization Flood Hazard Research Center

Contact E. Penning-Rowsell, Director

Flood Hazard Research Center

Middlesex Polytechnic

Queensway, Enfield EN3 4SF

United Kingdom

Telephone: [44] (1) 368-1299 ext. 2248

Telex: 8954762

Telefax: [44] (1) 805-0702

Description The Flood Damage Analysis Package, ESTDAM, is a tool for interactive,

flexible benefit/cost analysis of urban flood protection schemes. ESTDAM

helps evaluate flood alleviation schemes in the United Kingdom and

Europe.

Format ESTDAM is currently available as a mainframe application. A version for

personal computer use is being developed.

Available via special arrangement.

Additional

Information Publications list.

Flood Data & Floodplain Management

Organization

Army Corps of Engineers

Contact

Jerome Peterson

HQUSACE (CECW-PF)

Chief, Flood Plain Management Services &

Coastal Resources Branch 20 Massachusetts Avenue, NW Washington, DC 20314 Telephone: (202) 272-0169

Description

The Corps of Engineers acquire and compile hydrologic and hydraulic data for both river and coastal flooding and data on flood loss. General Investigations and Flood Plain Management Services, FPMS, carry out this mission. The FPMS unit in each of the 38 Corps offices nationwide serves as a point of contact. Data cover areas within district boundaries and may contain several different sources as well as several decades of flood

experience.

Format

Data are not standardized but arranged to meet study requirements. Some

are stored in computer-compatible format.

Availability

Cost, if any, depends on ease of access and volume of reproduction required.

Flood Data

Organization

Soil Conservation Service

Contact

Soil Conservation Service
US Department of Agriculture

PO Box 2890

Washington, DC 20013

Description

Dams, Dikes and Reservoirs:

The Earth (soil or rock) Spillway Flows data base contains reports of hydrologic and hydraulic and erosion analyses of the performance of earth spillways on dams constructed with assistance from the Soil Conservation Service. The Engineering Division initiates studies when spillway flow exceeds 3 feet (1 foot for early studies), or flows for 7 days or longer.

Reports span from about 1972 to present.

Format

Printed reports are available through the National Technical Information Service, NTIS. See the NTIS listing in this directory under Information and

FLOOD

Research Centers. Reports currently available are: PB85-186856/AS Arkansas, Dec. 1982; PB89-114227/AS Mississippi, Dec. 1982; PB89-

114235/AS Mississippi, May 1983; PB89-114730/AS

Kentucky, May 1984; PB89-114748/AS Michigan, Sept. 1985.

Availability

Contact the Soil Conservation Service for detailed information on specific

spillway flows.

Additional Information

For further information, contact: Donald Basinger, Director

Engineering Division

Telephone: (202) 447-2520

FTS: 447-2520

Description

Flood Data:

The Division of Basin and Area Planning of the SCS maintains Flood Hazard Studies which provide reference data on approximately 600 studies performed by SCS. Information includes: name of the study, SCS project number, location, stream miles studied, US Geological Survey hydrologic code, one percent (100-year) flood plain acreage, date of study, and cost of study. The studies were performed throughout the United States from 1969 to the present. Contact state SCS offices with questions about specific

studies, final reports, and supporting documents.

Format

Computerized printouts.

Availability

Computerized printouts are available at cost of computer services.

Additional Information

For further information contact: Edward Riekert, Director Basin and Area Planning Division Telephone: (202) 447-2847

FTS: 447-2847

Flood Data

Organization

Susquehanna River Basin Commission

Contact

Robert Bielo, Executive Director Susquehanna River Basin Commission 1721 North Front Street

Harrisburg, PA 17102-2391 Telephone: (717) 238-0422 Description The Susquehanna River Basin Commission gathers data on flooding in the

basin, hydraulics, water quality, and census material. Some of this data has been reproduced in hard copy reports and some has been stored on the Commission's UNISYS computer system. The Commission maintains reports and publications, flood maps, and computerized hydraulic and other

data.

Format Hard copy, maps, computerized data.

Availability Contact George Lazorchick, SRBC Staff, 8am-4pm (EST) weekdays, (717)

238-0425.

Additional Information

Publications list.

Floodplain Management

Organization

Flood Studies Center

Contact

William van Eck, Professor Flood Studies Center West Virginia University Morgantown, WV 26506-6108 Telephone: (304) 293-2219

Description

The Flood Studies Center of West Virginia University provides a training, resource, and reference facility in support of the statewide integrated flood warning system--IFLOWS. The Center provides technical assistance and bibliographics on a variety of flood-related topics, including flood emergency preparedness, flood mitigation, and floodplain management.

Format

Hard copy reports, books, bulletins, and bibliographies, complete file of floodplain maps for West Virginia communities, on-line model IFLOWS.

Availability

Contact the Center for details.

Additional

Information

IFLOWS System Fact Sheet.

Floodplain Management

Organization

Floodplain Management Resource Center

Contact

Dave Morton, Librarian

Floodplain Management Resource Center

Natural Hazards Research and Applications Information Center

University of Colorado Campus Box 482 Boulder, C0 80309 Telephone: (303) 492-6818 Telefax: (303) 492-6924

Description

The Association of State Floodplain Managers established the Floodplain Management Resource Center at the Natural Hazards Research and Applications Information Center at the University of Colorado at Boulder. The Floodplain Management Resources Center is both a library and a referral service for floodplain management publications. The library consists of regional and national publications related to floodplain hydrology and hydraulics, planning, disaster preparedness, floodproofing, flood control,

and regulations.

Format

Hard copy and computer copy.

Availability

Anyone may use the services of the Center at no cost by calling (303) 492-6818 from 9 am-4 pm weekdays, MST.

Floodplain Management

Organization

Tennessee Valley Authority

Contact

James Wright, Senior Technical Specialist

Floodplain Management Division Tennessee Valley Authority 200 Liberty Building

415 Walnut Street Knoxville, TN 37902 Telephone: (615) 632-4455

Description

The Tennessee Valley Authority maintains the Flood Information Management System, a flood data base on streams in the Tennessee region. The data base includes information on: watershed and stream change conditions, intense storms, historic floods, dam and reservoir data, community floodplain regulations, and previous flood hazard information, flood insurance, and comprehensive flood damage reduction. The data base also has graphic capabilities.

The Tennessee Valley also helps reduce flood damage by providing communities with technical expertise on assessment issues, interpreting data, enacting effective local floodplain ordinances, assessing flood insurance eligibility, and providing information on warning and forecasting systems.

Format Hard copy, computer copy, and audio-visual materials.

Availability Contact the Floodplain Management Division for further information.

Additional Information

TVA's Floodplain Management Program: How It Benefits You, Pathways for Floods, Floodplain Management: The TVA Experience.

National Flood Insurance Program

Organization Federal Emergency Management Agency

Contact Edward Pasterick, Assistant Administrator

Federal Insurance Administration National Flood Insurance Program Federal Emergency Management Agency

Washington, DC 20472 Telephone: (202) 646-3443

Description The National Flood Insurance Program Management Information System,

MIS, contains data on nearly 18,000 communities participating in the National Flood Insurance Program, NFIP, and on 4,000 nonparticipating communities that have been identified at some point as flood-prone. MIS includes information on the community's status in the NFIP, available flood hazard area maps, demographic data on the community and its flood hazard

areas, and flood insurance policy and claims data.

Flood Hazard Boundary Maps or Flood Insurance Rate Maps are available for most communities. Approximately 10,000 of these maps include 100-year flood elevations for one or more flooding sources. Maps were developed for the Federal Emergency Management Agency, FEMA, by

private consulting firms and other Federal agencies.

Format Computerized. Tape copies are available. A hard copy community status

book is published periodically. FEMA plans to convert this file to

FOXBASE for use on a personal computer. Data are updated regularly.

Availability For small requests there is generally no charge.

FLOOD

Additional Information

For information on MIS contact the above individual. For information on maps contact: Federal Emergency Management Agency, Flood Map Distribution Center, 6930 (A-F) San Thomas Road, Baltimore, MD 21227-6227, Telephone: (800) 333-1364. For general information about the National Flood Insurance Program contact: David Cobb, Federal Insurance Administration, Federal Emergency Management Agency, Washington, DC 20472, Telephone: (202) 646-2774.

See also the following appendices:

- Coastal Zone Management
- Army Corps of Engineers
- Sea Grant Programs

Hurricane Data

Organization

National Hurricane Center

Contact

Robert Sheets, Director National Hurricane Center

1320 South Dixie Highway, Room 631

Coral Gables, FL 33146 Telephone: (305) 666-4612

Description

The National Hurricane Center provides a record of hurricanes from 1871

to the present, containing position and strength estimates at 6-hour

intervals.

Format

Hard copy and on-line. Booklet, computer listing, floppy diskette, and

magnetic tape are available.

Availability

Contact the Center. Costs vary depending on requests.

Hurricane Research

Organization

Hurricane Research Center

Contact

Howard Friedman, Meteorologist

Hurricane Research Center

Atlantic Oceanographic and Meteorological Laboratory

4301 Rickenbacker Causeway

Miami, FL 33149

Telephone: (305) 361-4319 Telex: 600 510-3049

Description

The Hurricane Research Center provides damage maps for selected landfalling tropical cyclones. Also available are maps developed by

Professor T.T. Fujita, University of Chicago.

Format

Hard copy.

Availability

Contact the center.

HURRICANE

Hurricane Research

Organization University of Puerto Rico

Contact Aurelio Mercado, Assistant Professor

Department of Marine Sciences University of Puerto Rico

PO Box 5000

Mayaguez 00709-5000

Puerto Rico

Telephone: (809) 834-4040, ext. 3439, 3443, 3447

Description University of Puerto Rico's Marine Sciences Department conducts

hurricane research focusing on hazard and vulnerability analyses in the Caribbean Sea region. Since Puerto Rico has not been struck by a full-blown hurricane since 1932, field data is scarce; however, the Department does conduct computer simulations of hurricanes striking Puerto Rico. The computer model adapted and tested is SLOSH (Sea, Land, and Overland

Surges from Hurricanes) developed by the National Oceanic and

Atmospheric Administration.

Format Hard copy reports available upon request.

Availability Call or write the University of Puerto Rico.

Additional

Information Storm Surge Modelling in Puerto Rico and the US Virgin Islands. 1987.

Mercado, A. University of Puerto Rico. Mayaguez, Puerto Rico.

Tropical Cyclone Data: Worldwide

Organization National Climatic Data Center

Contact Joe Elms

National Climatic Data Center

National Oceanic and Atmospheric Administration

Federal Building Asheville, NC 28801 Telephone: (704) 259-0344

FTS: 672-0344

Description The National Climatic Data Center shows position and stage for tropical

cyclones (including hurricanes). Data are organized by ocean basin: North Atlantic, Eastern North Pacific, Western North Pacific, North Indian, Southwest Indian, and Southwest Pacific and Australian Region. Period covered varies with geographic area and is generally the late 1800s to 1986

(1871-1986 for North Atlantic). The source of data for the North Atlantic and Eastern North Pacific Ocean is the National Hurricane Center. Other basins include Foreign Meteorological Services and the Joint Typhoon Warning Center, Guam.

Format

On magnetic tape. Copies, plots, searches and analyses are available at

cost.

Availability

Contact the National Climatic Data Center for further information.

Tropical Cyclone Information: Worldwide

Organization

World Meteorological Organization

Contact

T. Potter, Director

World Weather Watch Department World Meteorological Organization

41, Giuseppe-Motta Case Postale No. 5 CH-1211 Geneva 20

Switzerland

Telephone: [41] (22) 34 64 00 Telex: 23 260 OMM CH Telefax: [41] (22) 34 23 26

Description

The World Meteorological Organization, WMO, includes the Tropical Cyclone Program, the World Climate Program, and the Hydrology and Water Resources Program. The programs assist members of WMO in their efforts to minimize loss of life, disruption of economic activity, and damage caused by meteorological and hydrological phenomena. By establishing national, regional, and globally coordinated systems, the WMO helps their national meteorological and hydrological services provide better and more effective warnings. The WMO Congress defines the programs' activities at four-year intervals. They are implemented by the national services under the coordination and with the support of the WMO and its secretariat.

Format

Hard copy publications and audio-visuals including films and video tapes.

HURRICANE

Availability

Publications, films, and video tapes may be purchased. Some technical reports may be obtained free of charge.

Additional Information

Catalogues of <u>Publications of WMO</u>, <u>Meteorological Training Publications and Audio-visual Aids</u>, and <u>Tropical Cyclone Programme Reports</u>.

See also the following appendices:

- Coastal Zone Management National Weather Service

Severe Storm Data

Organization

National Climatic Data Center

Contact

Henry Vigansky

National Climatic Data Center

National Oceanic and Atmospheric Administration

Federal Building Asheville, NC 28801 Telephone: (704) 259-0448

FTS: 672-0448

Description

The National Oceanic and Atmospheric Administration provides data detailing storm location, date, damages, injuries, and death for the US from 1959 to the present. Data are updated annually. Data sources include: Storm Data, news media, technical reports, and publications of the

American Meteorological Society.

Format

Hard copy, computer copy, slides, films, and searches.

Availability

Phone, write or visit the laboratory.

Severe Storms Education

Organization

National Severe Storms Laboratory

Contact

Mary Meacham, Librarian

National Severe Storms Laboratory

1313 Halley Circle Norman, OK 73069 Telephone: (405) 366-0421

FTS: 736-3421

Description

The National severe Storms Laboratory, NSSL, provides posters, pamphlets, slides, and films on severe weather and related safety measures. Posters and pamphlets are available at no cost. Films and slides are loaned; slides and non-copyright films may be duplicated. The laboratory loans books via inter-library loan originated at the local library. All services are free.

Format

Hard copy, slides, and films.

Availability

Patrons may call, write, or come in person.

Additional

Information

Many NSSL technical memoranda are still available; for those not still in

print, NTIS ordering data is provided.

SEVERE STORMS

Severe Storms Education

Organization

American Red Cross

Contact

Rocky Lopez Disaster Services National Headquarters American Red Cross 431 18th St., NW

Washington, DC 20006-5399 Telephone: (202) 639-3400

Description

The Weather Education and Awareness Project aims to reduce property damage, injuries, and loss of life from weather-related disasters. The project is a cooperative venture of the American Red Cross and the Weather Channel. The two organizations are developing several different media materials that are made available through local Red Cross chapters and the network's local cable television affiliates. As a result of these efforts, the project produces publications and videotapes, e.g., Weather Times, a newspaper, Calm to Catastrophe a videotape, and Weather Guidebooks.

Format

Newspaper, audio-visual materials, guidebooks.

Availability

For further information contact a local chapter of the American Red Cross or Rocky Lopez.

Severe Storm Information

Organization

National Weather Wire Service

Contact

R. Morris

Contel ASC-Government Networks Division

National Weather Wire Service

7916 Westpark Drive McLean, VA 22102-9922 Telephone: (800) 633-2340

Description

The National Weather Wire Service, NWWS, provides broad, fast, reliable, and accessible weather forecasts and data via a direct broadcast satellite system. The service also issues timely warnings of severe weather and floods. Subscribers equipped with the appropriate satellite receiver system can collect weather information, warnings, and forecasts transmitted to the satellite from Weather Service Forecast Offices throughout the US. Users

SEVERE STORMS

of the Weather Wire can specify exactly which NWWS reports they wish to receive and can display the information using a variety of devices including printers, video displays, and personal or mainframe computers.

Format

Satellite communications.

Availability

Fixed rate regardless of location.

Additional

Information Contact R. Morris for further information.

See also the following appendix:

• National Weather Service

Ice Data: Great Lakes Region

Organization

Great Lakes Environmental Research Laboratory

Contact

Frank Quinn, Head

Lake Hydrology Department

Great Lakes Environmental Research Laboratory

2205 Commonwealth Boulevard

Ann Arbor, MI 48105 Telephone: (313) 668-2255

Description

The Great Lakes Environmental Research Laboratory, GLERL, provides a 20-winter computerized ice concentration data base established for the Great Lakes. Some 2800 historic ice charts spanning the years 1960-79 were digitized on a 5 x 5 cm grid resolution. GLERL provides maximum, median, minimum, and average mode ice concentrations for each grid

square for nine half-month periods.

Format

Magnetic tape. Address inquiries to National Snow and Ice Data Center, NSIDC, CIRES, Campus Box 449, University of Colorado, Boulder, CO

80309. Telephone: (303) 492-1834; FTS: 320-5311.

Availability

Contact the Laboratory for further information.

Snow & Ice Data: Worldwide

Organization

National Snow and Ice Data Center

Contact

Ronald Weaver, Scientific Manager World Data Center A for Glaciology National Snow and Ice Data Center

Cooperative Institute for Research in Environmental Sciences

Campus Box 449 University of Colorado Boulder, CO 80309 Telephone: (303) 492-5171 Telex: 257673 WDCA UR Telefax: (303) 492-1149

Description

The World Data Center A for Glaciology, National Snow and Ice Data Center, WDC/NSIDC, archives analog and digital data on numerous areas of snow and ice research. The majority of the data sets describe snow cover and sea ice, but also include data relating to glacial geophysics and satellite microwave research. The Center archives published material on snow and ice, with a collection of approximately 10,000 aerial and terrestrial glacier photographs dating from the late 19th century to the 1960s. In addition,

NSIDC archives data from the US Air Force Defense Meteorological Satellite Program, DMSP. The center holds over 1 million pieces of

satellite imagery with worldwide coverage.

Format Hard copy and on-line. Most of the data sets are digital. The DMSP data

is a hard copy transparency product. The library holdings are in an on-line

data base, CITATION.

Availability Data sets are available to the public. Prices and accessibility varies.

Snow & Ice Research

Organization Army Cold Regions Research and Engineering Laboratory

Contact
Nancy Lisbon, Librarian
US Army Cold Regions Research and Engineering Laboratory

72 Lame Road Hanover, NH 03755 Telephone: (603) 646-4221

Description The US Army Cold Regions Research and Engineering Laboratory provides

the on-line Bibliography on Cold Regions Science and Technology, which contains 135,000 references dating to 1951. This international bibliography covers engineering, hydrology, climatology, snow, ice, and permafrost.

Format On-line and hard copy. Engineering information is available from technical

experts.

Availability On-line access is available 24 hours a day, \$80 per connect hour from Orbit

Search Service, Westpark Drive, McLean, VA 22022, 1-800-45-ORBIT.

Additional

Information Hard copy of the bibliography is available from NTIS, Springfield, VA.

Snow Information

Organization

Snow Survey and Water Supply Forecasting Program

Contact

David Johnson

US Department of Agriculture Soil Conservation Service Snow Survey Program

SNOTEL

511 NW Broadway, Room 248 Portland, OR 97209-3489 Telephone: (503) 221-2843

Description

The Snow Survey and Water Supply Forecasting Program forecasters determine the relationship between mountain snowpack and the subsequent snowmelt runoff. The program collects data from about 1600 snow courses several times each winter. Surveyors determine the depth and water content of the snowpack, and estimate the amount of runoff from mountain watersheds.

SNOTEL is a network of automated radio-telemetry data sites that provide daily data on streamflow potential. This information is especially valuable during periods of drought or flood. The data collected by both snow surveyors and SNOTEL are translated into water supply forecasts that the Soil Conservation Service, SCS, state offices issue monthly from January to June in cooperation with the National Weather Service.

The Centralized Forecasting System is a free dial-up menu-driven computer system. It makes snow survey and related planning information available to local conservation districts and the SCS offices, the National Weather Service, numerous government agencies, and private entities.

Format

Hard copy and on-line services.

Availability

For further information contact David Johnson.

See also the following appendix:

Water Resources

TORNADO & SEVERE WINDS

Severe Wind Information

Organization

National Climatic Data Center

Contact

User Services Branch

National Climatic Data Center

NOAA

Federal Building Asheville, NC 28801 Telephone: (704) 259-0682

FTS: 672-0683

Description

The Tornado and Natural Hazards Files at the National Climatic Data Center include statistical information on tornadoes, tropical storms and hurricanes, and lightning. The Center also maintains standard temperature

and precipitation records.

Format

Hard and computerized tape copies.

Availability

Call or write the National Climatic Data Center for details.

Additional Information

Storm Data. National Climatic Data Center. NOAA. Asheville, NC. Published monthly. Storm Data contains state listings of storms and unusual weather including date and time of storm, deaths, injuries, property damage, crop losses, and storm characteristics. Storm Data serves as a

source for several of the files.

Severe Wind Information

Organization

Soil Conservation Service

Contact

Tommy George, Director Resources Inventory Division Soil Conservation Service US Department of Agriculture

PO Box 2890

Washington, DC 20013 Telephone: (202) 447-5424

FTS: 447-5424

Description

The Resources Inventory Division of the Soil conservation Service, SCS, files wind erosion reports three times a year during the November to May wind erosion season. Data include: estimates of land and crops damaged, contributing factors to wind erosion, social and environmental effects of soil blowing, and erosion control plans for the ten Great Plains states from the

TORNADO & SEVERE WINDS

1950s to the present. Reports are based on observations by SCS field office staff. National headquarters collects only state summaries. Field office

data are available at SCS state offices.

Format Hard copy, unpublished.

Availability Copies are free. Reports are filed three times per year in January, March

and June.

Additional Information

Wind Erosion Conditions Inventory. National Inventory and Monitoring Manual. 290-V. Issue 1. Part 505.02. Soil Conservation Service. US

Department of Agriculture. Washington, DC. May 1981.

Severe Wind Research

Organization

Institute for Disaster Research

Contact

Jim McDonald, Director Institute for Disaster Research

Texas Tech University

PO Box 4089

Lubbock, TX 79409-4089 Telephone: (806) 742-3476 Telefax: (806) 742-1900

Description

The Institute for Disaster Research, IDR, program focuses on extreme winds and their effects on the built environment. Studies explore tornadoes, hurricanes and other extreme winds. The IDR program performs wind engineering research on the interaction between wind and structures, and disseminates the information for professional use.

The IDR maintains a wind damage data base of slides and photographs of windstorm damage from more than sixty windstorms, dating from 1970 to

the present.

Format Hard copy reports, photographs, and slides.

Availability Call or write the Institute at the above address.

Additional Information

Contact the Institute for a list of publications.

Research Capabilities of the Institute for Disaster Research. August 1988.

James McDonald. Lubbock, Texas. Texas Tech University.

TORNADO & SEVERE WINDS

Tornado Data

Organization

National Climatic Data Center

Contact

Henry Vigansky

National Climatic Data Center

National Oceanic and Atmospheric Administration

Federal Building Asheville, NC 28801 Telephone: (704) 259-0448

FTS: 672-0448

Description

The National Climatic Data Center maintains tornado statistics on the location, movement, Fujita Index, damage, deaths, and injuries for each tornado. The tornado statistics cover the United States from 1951 to 1987. The National Severe Storms Forecast Center developed the file from

NOAA Storm Data.

Format

On magnetic tape. Updated annually.

Availability

Searches, plots, and analyses are available at cost.

Additional Information

Climatological Data National Summary, Annual Tornado Summary.

National Climatic Data Center. Asheville, NC.

Storm Data. National Climatic Data Center. Asheville, NC.

See also the following appendices:

- Soil Conservation
- National Weather Service

Hydrological Data

Organization

Australian Water Research Advisory Council

Contact

The Secretary

Australian Water Research Advisory Council Department of Primary Industries and Energy

GPO Box 858 Canberra ACT 2601

Australia

Telephone: [61] (62) 72 3933

Description

The Australian Water Research Advisory Council, AWRAC, sponsors STREAMLINE, a national computerized data base covering all aspects of water and wastewater information produced by Australians or about Australia. Subject categories include: water quantity, aquatic environments, water resource investigation, and urban water utilities. STREAMLINE

includes bibliographic and research and progress reports.

Format

On-line. The STREAMLINE Coordination Unit produces hard copy

publications as well.

Availability

STREAMLINE is available seven days a week. An annual account

maintenance fee is charged on all accounts.

Hydrological Data

Organization

Soil Conservation Service

Contact

Howard Tankersley, Director Watershed Projects Division Soil Conservation Service US Department of Agriculture

P.O. Box 2890

Washington, DC 20013 Telephone: (202) 447-3527

FTS: 447-3527

Description

The Soil Conservation Service, SCS, provides reference data on approximately 1400 projects carried out under the 1954 Watershed Act (Public Law 83-566). Projects serve a number of functions including flood

prevention, water supply, drainage and irrigation, water quality,

conservation, and fish and wildlife for small watersheds under 250,000 acres. Data include name, location, purpose, cost, and milestone dates. Projects

include structural and nonstructural approaches.

Format

On-line and hard copy.

Availability

Computerized tape copies and printouts are available at cost of duplication. An annual status report is available free of charge.

Hydrological Data & Information

Organization

Geological Survey

Contact

Owen Williams US Geological Survey 421 National Center Reston, VA 22092 Telephone: (703) 648-5684

FTS: 959-5684

Description

National Water Data Exchange:

The National Water Data Exchange, NAWDEX, is an indexing and reference service for water data users. NAWDEX assists users in identifying, locating, and acquiring needed data on the US and Canada. NAWDEX accesses two files: the Water Data Sources Directory and the Master Water Data Index.

The Water Data Sources Directory provides information on over 2000 organizations which generate water data, as well as the type of data maintained and the geographic area of data collection. These organizations are members of the National Water Data Exchange.

The Master Water Data Index consists of data from over 460,000 collection sites. The data include the: collection agency, type of data, period of record, parameters measured, frequency of measurements, data media, and site locations.

NAWDEX also accesses several other computerized data bases, including STORET of the Environmental Protection Agency and ENDEX/OASIS of the National Oceanic and Atmospheric Administration.

Format

Hard copy and on-line data searches.

Availability

Cost estimates are provided upon request. Contact the USGS at the above address for more information.

Additional Information

"Guide to Obtaining US Geological Survey Information." Circular 900.

1986. Free upon request from: Books & Open-File Reports Section US Geological Survey

Federal Center Box 25425

Denver, CO 80225

Description

Water Data Storage and Retrieval System:

In 1971 the US Geological Survey, USGS, established WATSTORE, the National Water Data Storage and Retrieval System. WATSTORE modernized the USGS's existing water-data processing procedures and techniques and provided for more effective and efficient management of its data-releasing activities. Data may be obtained from WATSTORE through any of the Water Resources Division's district offices.

WATSTORE maintains data from approximately 16,000 gaging stations, 1,000 lakes and reservoirs, 5,200 surface water quality stations, 1,020 sediment stations, 30,000 water-level observation wells, and 12,500 ground water quality wells. WATSTORE indexes daily values, peak flow, water-quality, and unit values for each site when possible.

Format

Hard copy and magnetic tape.

Availability

Cost estimates for these products may be obtained from USGS district

offices.

Additional Information

For further information, contact:

Chief Hydrologist US Geological Survey 437 National Center Reston, VA 22092

Description

Urban Geology and Hydrology Projects:

The US Geological Survey conducts mapping of basic and interpretive geology within urban areas. These maps include definition of hazards associated with floods, earthquakes, landslides, subsidence and poor foundation materials. The USGS mapped urban areas with increasing water resources and land demands. These urban areas include: Baltimore-Washington, Connecticut Valley, greater Pittsburgh, San Francisco Bay region, Tucson-Phoenix, Puget Sound, WA, Front Range Urban Corridor, CO, and Fairfax County, VA.

Format

Hard copy maps and reports.

Availability

For further information, contact:

Director

Engineering Geology Division

US Geological Survey 106 National Center Reston, VA 22092

Telephone: (703) 648-4425

FTS: 959-4425

Hydrological Engineering

Organization

Hydrologic Engineering Center

Contact

Vern Bonner, Chief **Training Division**

US Army Corps of Engineers Hydrologic Engineering Center Water Resources Support Center

609 Second Street Davis, CA 95616-4687 Telephone: (916) 551-1748

Description

The Hydrologic Engineering Center, HEC, provides technical support in hydrologic engineering. Products include training courses, videotapes of

lectures, computer programs, and technical documents.

Format

Hard copy reports, videotapes in 1/2" VHS, and computer programs in

MSDOS diskettes.

Availability

Contact HEC for a copy of their Publications Catalog, Videotape Sales

Library, and Computer Program Catalog.

Additional Information

Contact HEC for a copy of their annual report.

Hydrometeorological Data

Organization

National Weather Service

Contact

E. Hansen, Chief

Water Management Information Division

National Oceanic and Atmospheric Administration

National Weather Service Office of Hydrology Silver Spring, MD 20910 Telephone: (301) 427-7543

FTS: 427-7543

Description

The Office of Hydrology provides a bibliography of studies of

hydrometeorological interest published by NOAA during the past 30 years.

Topics relevant to natural hazards are: Drought (Department of Agriculture) Floods (NWS, Office of Hydrology)

Tropical cyclones (NOAA National Climatic Center)

Precipitation (NWS, Office of Hydrology)

Snow (cover, water content, frequency and intensity of snow fall, and Blizzards on north-central Plains, forecasting, snowline variations, runoff) Severe storms (number, structure, movement, meteorology, and related

effects)

Format

Hard copy. Printed individual reports are available from National Technical Information Service, Springfield, VA., US Government Printing Office, Washington, DC, or the appropriate NOAA offices. Prices vary with

publications.

Availability

Contact the Office for more details.

Hydrometeorological Data

Organization

World Meteorological Organization

Contact

Director

World Meteorological Organization

PO Box 5

CH-1211 Geneva 20

Switzerland

Description

The World Meteorological Organization, WMO, is a specialized agency of the United Nations of which 154 states and territories are members. It was

created to:

- 1) Facilitate worldwide cooperation in the establishment of meteorological observation station networks and the rapid exchange of information;
- 2) Promote standardization of meteorological observations;
- 3) Further the application of meteorology to aviation, shipping, water problems, agriculture, and other human activities;
- 4) Encourage research and training in meteorology and coordinate international aspects of such research and training.

Format

Hard copy and technical assistance.

Availability

Data are available on request. Some data are available according to the agreement of the country concerned.

Additional Information

To obtain information from the World Meteorological Organization's six regional offices in Africa, Asia, South America, North and Central America, South-West Pacific, and Europe, contact the WMO at the above address.

See also the following appendices:

- · Water Resources
- Geological Survey: Water Resources
- Water Resources Research Institutes

WILDFIRE & FORESTRY

Forestry Data: Insects & Diseases

Organization

Forest Service

Contact

James Space, Director

Forest Insect and Disease Management Division

Forest Service

US Department of Agriculture

PO Box 2417

Washington, DC 20013 Telephone: (703) 235-1560

FTS: 235-1560

Description

The Forest Service Regional and Area Forest Insect and Disease Management Division annually conducts aerial and ground surveys to monitor the status of destructive insect and disease pests on Forest Service lands. State forestry organizations monitor insect and disease conditions on state and private lands. Archival data are available at regional or area headquarters for about the last 20 years. Tabular summaries of acres infested by causal agents and intensity of damage are available from regional or area offices. In addition, maps are available showing location of infestation. Annual Regional and National Forest Insect and Disease

Condition reports are also available.

Format

Hard copy and on-line computer services.

Availability

Contact the Service for further information.

Forestry Information

Organization

Department of Agriculture

Contact

Seung Sinatra, Network Coordinator

Forestry On-line

Forest Service Information Network US Department of Agriculture 10301 Baltimore Boulevard Beltsville, MD 20705 Telephone: (301) 344-2507

Description

The Forest Service Information Network, FS INFO, contains 50,000 bibliographic citations. New citations to journal articles, Forest Service publications, books, and chapters in books are added each month. The Network also adds subject-oriented data bases such as FIREBASE. Future efforts will be made to incorporate all Forest Service publications and 10

INFO Center library holdings.

WILDFIRE & FORESTRY

Format

On-line and microfiche.

Availability

Contact FS INFO for a microfiche catalog and brochure.

Wildfire Data

Organization

Boise Interagency Fire Center

Contact

Roger Bradshaw

Boise Interagency Fire Center

3905 Vista Avenue Boise, ID 83705

Telephone: (208) 389-2603

FTS: 554-2603

Description

The Boise Interagency Fire Center collects fire data from over 800 Forest Service weather stations for estimating the severity of fire danger and forest management planning. These data include: the number of fires, acres burned, dollar damage or net value change, fire size class, and major causes. These data cover fires in national forests and are catalogued by forest, region, and state.

Format

Hard and computer copy.

Availability

Contact the Boise Interagency Fire Center.

Additional Information

1987 National Forest Fire Report, prepared by Aviation and Fire Management Staff. Forest Service. US Department of Agriculture. Washington, DC 1988. Annual Report.

The National Fire Weather Data Library: What It Is and How to Use It, R. William Furman and Glen E. Brink, General Technical Report RM-19, Rocky Mountain Forest and Range Experiment Station, Forest Service, US Department of Agriculture, Ft. Collins, CO, 1975.

WILDFIRE & FORESTRY

Wildfire and Natural Hazards Information: Australia

Organization

Macquarie University

Contact

Russell Blong, Professor School of Earth Sciences Macquarie University AA 122377 Macuni New South Wales 2109

Australia

Description

Macquarie keeps a data base on the effects of natural hazards in Australia from 1788-1988, and in Papua, New Guinea from 1880-1988. Hazards covered include fire, earthquake, tropical cyclone, drought, and flooding.

Format

Computer-based in Notebook II and dBXL.

Availability

Contact the University for further information.

Wildfire & Natural Hazards Information: US

Organization

Intermountain Research Station

Contact

Richard Klade, Leader Research Information Group

Intermountain Research Station

324 25th Street Ogden, UT 84404

Telephone: (801) 625-5436

Description

The Intermountain Research Station, INT, provides quarterly

announcements listing 40 to 80 new publications, and several hundred journal articles by INT scientists and cooperators. Subjects include all phases of natural resource research and wildfire, landslides, erosion,

pollution, and other hazards.

Format

Hard copies.

Availability

Write INT to receive the quarterly mailing list.

See also the following appendix:National Weather Service

SOCIETAL RESPONSE

BUILDING TECHNOLOGY & TRANSPORTATION

Building Technology

Organization

Applied Technology Council

Contact

Christopher Rojahn, Executive Director

Applied Technology Council 3 Twin Dolphin Drive, Suite 275 Redwood City, CA 94065 Telephone: (415) 595-1542

Description

The Applied Technology Council is a nonprofit corporation which conducts projects, workshops, and seminars in support of the structural engineering profession. The Council publishes structural engineering reports which result from their research projects and workshops.

Publications are available in hard copy.

Availability

Format

Call for publication prices; mail payment with order.

Building Technology

Organization

Building Seismic Safety Council

Contact

James Smith, Executive Director **Building Seismic Safety Council** 1015 15th Street, NW, Suite 700 Washington, DC 20005 Telephone: (202) 347-5710

Description

The Building Seismic Safety Council provides information, data, and technical assistance on seismic regulations for new buildings. The Council's efforts respond to requests posited by the National Earthquake Hazards

Reduction Program.

Format

Hard copy.

Availability

All reports are available in limited quantities at no cost.

Additional

Information

The Building Seismic Safety Council maintains a publications list which spans the categories of: seismic regulations for new buildings and existing buildings, societal implications, abatement of seismic hazards to lifelines, and seismic design and construction considerations.

BUILDING TECHNOLOGY & TRANSPORTATION

Building Technology

Organization Center for Building Technology

Contact National Institute of Standards and Technology

National Engineering Laboratory Center for Building Technology Gaithersburg, MD 20899 Telephone: (301) 975-5904 Telefax: (301) 975-2128

Description The Disaster Mitigation Program at the Center for Building Technology

focuses on developing improved building practices which reduce the damage caused by floods, hurricanes, tornadoes, earthquakes, and other extreme natural forces. Major thrusts of this program include: safety evaluation of existing buildings, improved design criteria and standards, post-disaster investigations, and more reliable measures of effects of natural and human-

made forces on buildings.

Format Data are released in hard-copy periodicals and reports.

Availability Publications of the National Institute of Standards and Technology are

available from the US Government Printing Office, Washington, DC 20402, and the National Technical Information Service, Springfield, VA 22161.

Transportation Research

Organization National Transportation Safety Board

Contact Stan Smith (SP-30)

National Transportation Safety Board 800 Independence Avenue, SW Washington, DC 20594 Telephone: (202) 382-6672

Description The National Transportation Safety Board, NTSB, investigates and

maintains records of aircraft accidents. Records date from 1964 to present, and describe approximately 3,000 accidents per year. Records include: the cause of the accident, number of injuries and deaths, type of aircraft, accident location, type of accident, and the weather at time of the accident.

Format Information is available in hard copy, on computer tape, and via technical

services.

BUILDING TECHNOLOGY & TRANSPORTATION

Availability

Hard-copy reports which summarize the records are available.

Additional Information

NTSB Publications. National Transportation Safety Board. Publications Unit. Washington, DC.

Aircraft Accident Reports--Brief Format, US Civil Aviation. National Transportation Safety Board, Washington, DC, 6 issues per year. Available from the National Technical Information Service.

Annual Review of Aircraft Accident Data--US Air Carrier Operations, National Transportation Safety Board, Washington, DC. Annual Report. Available from the National Technical Information Service.

Annual Review of Aircraft Accident Data-US General Aviation, National Transportation Safety Board, Washington, DC. Annual report. Available from National Technical Information Service.

<u>Aviation Special Safety Studies</u>, National Transportation Safety Board, Washington, DC. Irregular. Available from the National Technical Information Service.

Transportation Research

Organization

Transportation Research Board

Contact

Jerome Maddock, Director of Information Services Transportation Research Board

2101 Constitution Avenue, NW Washington, DC 20418
Telephone: (202) 334-3250
Telex: 248664 NASWUR
Cable: NARECO

Description

Transportation Research Information Services, TRIS, is an on-line transportation data base. TRIS consists of abstracts of published articles, reports, and recently completed research projects which examine transportation system planning, development, operation, and performance. TRIS follows developments in air, highway, rail, maritime, and waterborne transport, as well as developments in mass transit. Users may search the entire TRIS data base or any combination of record types.

Format

On-line.

Availability

Contact the Transportation Research Board regarding questions concerning the TRIS data base.

DEMOGRAPHIC DATA

Census, Health, Socio-Economic: US

Organization Lawrence Berkeley Laboratory

Contact Deane Merrill, Computer Scientist

Computer Science Research Department Lawrence Berkeley Laboratory

University of California Building 50B, Room 3238 Berkeley, CA 94720 Telephone: (415) 486-5033

Description The Social, Economic, Environmental, Demographic Information System,

SEEDIS, provides on-line access to 200 data bases which emphasize public health applications. SEEDIS spans 1940-1990 and includes the 1970 census, 1980 census, vital statistics, cancer incidences, and socioeconomic data.

SEEDIS contains 10 gigabytes or 10 billion characters.

Format Machine-readable data files are archived on magnetic disk and tape. Files

are accessible through an interactive dial-up system as well.

Availability SEEDIS is available to the general public for a consulting fee of \$50 per

hour plus computing costs which are usually negligible. Qualified government collaborators may use SEEDIS for computing costs only.

Additional Information

The SEEDIS Project: A Summary Overview of the Social, Economic,
Environmental Demographic Information System, McCarthy, I. May 198

Environmental, Demographic Information System. McCarthy, J. May 1982. PUB-424/250. Lawrence Berkeley Laboratory. Berkeley: University of

California.

Census: US

Organization

Bureau of the Census

Contact

Customer Services US Bureau of the Census Washington, DC 20233 Telephone: (301) 763-4100

Description

The Census Bureau collects and publishes statistics on: population, transportation, housing, retail trade, agriculture, wholesale trade, mineral industries, selected service industries, construction industries, governments,

manufacturers, and foreign trade, to mention a few topics.

DEMOGRAPHIC DATA

The Census Bureau compiles data through censuses, surveys, administrative records, and estimate programs. Data may be obtained for many

aggregate levels from a city block to the entire US.

Format Census data comes in: printed reports, machine-readable data files on tape,

on-line via CENDATA, diskettes, compact disks and computer programs (e.g., the upcoming TIGER/lie file for computer mapping of the 1990 census), maps, microfiche, microfilm, and file printouts. Costs vary from \$5 for reports to \$175 for magnetic tapes. A variety of consultation, training, and special services are available. Files are updated at intervals from 1 day

to 10 years.

Availability Available free from Customer Services is the Monthly Product

Announcement.

The US Government Printing Office, State and Regional Census Data

Centers, and select libraries have:

<u>Census Catalog and Guide</u> (annual)

Census and You (a monthly newsletter)

Health: Europe

Organization

World Health Organization

Contact

Eva Nielsen, Librarian, Information Scientist

World Health Organization Regional Office for Europe

Scherfigivej 8 2100 Copenhagen 0

Denmark

Telephone: [45] (1) 290 111 Telex: 15348 WHO dk Telefax: [45] (1) 181 120

Description

The World Health Organization's, WHO, Europe Office provides technical assistance, and maintains a statistical data base--Health for All, HFA, as well as a bibliographic data base--EURODOC. EURODOC contains:

EURO documents and publications, consultant reports on country missions, travel reports of staff members, library acquisitions including HFA

documentation from member states, and reports on health activities carried out by other organizations. EURODOC's contents are comprehensive as of January 1, 1988 and include material recorded during the development phase, 1986-1987. Access to disaster information is via the medical subject

headings, MeSH and NLM.

Format

Hard copy and on-line.

Availability

See User's Guide.

DEMOGRAPHIC DATA

Additional Information

"EURO DOCumentation." World Health Organization. Regional Office

for Europe. Copenhagen.

EURODOC: Documentation Retrieval Data Base. A "Hands On" User

Guide. World Health Organization. Regional Office for Europe.

Copenhagen. 1988.

Health: US

Organization

National Center for Health Statistics

Contact

Harry Rosenberg, Chief Mortality Statistics Branch

National Center for Health Statistics

Room 1-44 Center Building 3700 East-West Highway Hyattsville, MD 20782 Telephone: (301) 436-8884

FTS: (301) 436-8884

Description

The National Center for Health Statistics collects a wide range of statistics on marriage, divorce, families, health, and mortality. Mortality statistics in the US are classified using the International Classification of Diseases categories. Causes of mortality include accidents resulting from natural and environmental factors, excessive heat or cold, high and low air pressure, lightning, flood, hurricanes, cataclysm, and others. Individual mortality records also include: place of occurrence and residence (state and county), age, sex, and race. Mortality data covers the US and select foreign countries from 1933 to the present. Mortality data are compiled from

annual death certificates.

Format

Printed reports, computer tapes, and special unpublished tabulations are

available. Data are updated annually.

Availability

Contact the National Center for Health Statistics

Additional Information

Catalog of Publications, 1980-87, National Center for Health Statistics,

Public Health Service, Hyattsville, MD June 1988.

Catalog of Public Use Tapes, National Center for Health Statistics,

Hyattsville, MD, July 1988.

Series of annual volumes:

Vital Statistics of the United States
Monthly Vital Statistics Report

Socio-Economic: Eastern Caribbean

Organization

Organization of Eastern Caribbean States

Contact

Sandra John, Network Manager

Organization of Eastern Caribbean States

Central Secretariat PO Box 179 The Morne, Castries

St. Lucia

Telephone: (809) 452-2537

Description

INFONET is the information network of the Organization of Eastern Caribbean States, OECS. The network includes primarily socio-economic information produced in or relevant to OECS member states. Member states include: Antigua and Barbados, Bermuda, Dominica, Grenada, British Virgin Islands, Montserrat, St. Kitts and Nevis, Street Lucia, Street Vincent and the Grenadines. OECS compiled information from 1980 onward, and the subject coverage is general, with a bias toward socio-

economic literature.

Format

Hard copy.

Availability

OECS provides printed output upon request.

Additional Information

INFONET Current Awareness Bulletin. Monthly. July 1987 to present.

INFONET News. Monthly. July 1987 to present.

See also the following appendices:

- · Emergency Management
- Army Corps of Engineers
- **FEMA**
- Small Business Administration
- World Health Organization

DISASTER RELIEF

Disaster Assistance

Organization

Agricultural Stabilization and Conservation Service

Contact

Director

Kansas City Management Office

Agricultural Stabilization and Conservation Service

US Department of Agriculture

PO Box 419205

Kansas City, MO 64141-0205 Telephone: (816) 926-6502

FTS: 926-6502

Description

In the event of a Presidentially declared disaster, the Agricultural Stabilization and Conservation Service, ASCS, may provide assistance, such as feed grains, grazing and haying privileges, emergency conservation aid, wildlife feeding assistance, distress donations for Native Americans, and disaster payments. ASCS maintains records of disaster payments for low yields; these records include the type of disaster and the dollars spent.

Format

Hard copy and computer copy.

Availability

Hard copy and magnetic tape copy are available for the cost of duplication.

Additional Information

Further information is available from the US Department of Agriculture's

county offices.

Disaster Assistance

Organization

Federal Emergency Management Agency

Contact

Joseph Russell

Federal Emergency Management Agency

SL-DA-PC, Room 705 Washington, DC 20472 Telephone: (202) 646-3069

Description

The Federal Emergency Management Agency, FEMA, operates the Automated Disaster Assistance Management System, ADAMS. ADAMS is a personal computer-network designed to expedite the management of grants and assistance programs in Presidentially declared disasters.

ADAMS has four modules: public assistance, grants to government entities; individual assistance, temporary housing, cash grants, and other assistance to families or individuals; hazard mitigation; and program support,

administrative functions.

DISASTER RELIEF

FEMA also maintains the Disaster Accountability Management System, DAMAGES. DAMAGES, as a part of FEMA's accounting system, records payments, refunds, and other financial data on disaster-assistance grants and

programs.

Format Hard copy and magnetic tape.

Availability Printouts are available for the cost of copying, and are subject to the

provisions of Federal laws and regulations regarding the protection of

individual privacy.

Disaster Information: Canada

Organization **Emergency Canada Research Unit**

Contact Joseph Scanlon

Emergency Canada Research Unit

Carleton University Ottawa, Canada K1S 5B6 Telephone: (613) 231-5532

Description The Emergency Canada Research Unit of Carleton University is developing

a computerized data base of Canadian disasters. The data base includes

information on: agency involvement, type of incident, and location.

Format Computerized data.

Availability Contact Joseph Scalon.

Disaster Information: Developing World

Organization Relief and Development Institute

Contact Edward Clay, Director 1 Ferdinand Place

London, NW1 8EE United Kingdom

Telephone: [44] (01) 485-0944 Telex: [44] 21879 Disinst Telefax: [44] (01) 284-0244

Description The Relief and Development Institute, RDI, carries out research and

evaluations, organizes workshops, and maintains its own document

collection and bibliographic data base on relief and development issues in

the developing world.

Format

Hard copy.

Availability

Contact the Relief and Development Institute.

Additional

Information

RDI may also be contacted by electronic mail. UK Telecom

Gold/DIALCOM Network 72:MAG35771.

Disaster Information: International

Organization

Agency for International Development

Contact

Andrew Natsios, Director

Office of US Foreign Disaster Assistance Agency for International Development

US Department of State Washington, DC 20523 Telephone: (202) 647-8924

Description

Disaster History File:

The Disaster History File contains a quantitative record of all foreign disasters to which the Agency for International Development/Office of US Foreign Disaster Assistance, AID/OFDA, has responded since 1964, plus selected major disasters dating back to 1900. These 2,816 records of foreign, natural and human-made, disasters include: dates; locations; casualties; damages to housing, transportation, communications, and crops; and magnitude of impact. These records are worldwide excluding the US. The Disaster History File provides intervention information for the prediction of disaster patterns and response requirements. The Disaster History File's sources are published reports from the AID/OFDA, international organizations, and voluntary agencies. Detailed information on disasters to which AID/OFDA has responded is recorded in disaster case reports and OFDA's Annual Reports.

Format

The data base is updated quarterly, and data may be retrieved by a variety

of selection criteria, including data, region, and disaster type.

Availability

Searches and listings are available free to qualified users. A chronological list of disasters by country is published annually, and is available upon

request.

Additional Information

"Disaster History, 1900 to Present," US Department of State, Washington, DC 20523, 1988.

Description

Country Profiles:

The Office of Foreign Disaster Assistance maintains profiles of over forty disaster-prone countries in Africa, Asia, Latin America, the Caribbean, and the Pacific. The profiles are updated every five or six years, and provide background information on specific countries. Each Country Profile has three sections. Section 1 describes general baseline information on the country's geography, population, history, economic and political systems, and health indicators. Section 2 describes the disaster vulnerability of the country, and examines disaster types. Section 3 describes the disaster preparedness and assistance of the country, specifically governmental and non-governmental institutions, and resources. Section 3 also describes past AID/OFDA involvement in the country, and provides addresses and brief descriptions of private voluntary agencies and international organizations active in the country.

Format

Hard copy documents, including maps, charts, and a bibliography.

Availability

Price list available from OFDA. Copies for purchase are available from: A.I.D. Document and Information Handling Facility

7222 47th Street, Suite 100 Chevy Chase, MD 20815

Description

Disaster Case Reports:

OFDA produces final summary case reports on foreign disasters, in which the US Government provided assistance. Each case report provides: official statistics on the number of people killed and affected, a description of the disaster, the actions taken by the government and non-governmental organizations, and a detailed accounting of the assistance provided by the US, private voluntary organizations, and the international community.

Format

Hard copy document.

Availability

Individual case reports are available from OFDA, no earlier than one year after the event. Case reports are also compiled for the OFDA Fiscal Year Annual Report.

Additional Information

Oliver Davidson, Assistant Director of Operations Support

Telephone: (202) 647-5916

Bill Garvelink, Assistant Director of Africa and Europe

Telephone: (202) 647-8746

Fred Cole, Assistant Director of Asia and Pacific

Telephone: (202) 647-8477

Barry Heyman, Assistant Director of Latin America and the Caribbean

Telephone: (202) 647-7544

Renee Bafalis, Press Officer Telephone: (202) 647-7539

Paul Krumpe, Science Advisor and Program Officer

Telephone: (202) 647-9758

Disaster Information: US

Organization

Army Corps of Engineers

Contact

Robert Fletcher

US Army Corps of Engineers' Headquarters Emergency Mangement Branch (CECW-OE-D)

Operations and Readiness Division

Directorate of Civil Works Washington, DC 20314-1000 Telephone: (202) 272-0251

Description

After a disaster, especially a flood disaster, the Army Corps of Engineers issues an After Action Report. This report summarizes the disaster operations and interagency coordination, including: a discussion of the emergency situation, types of assistance provided and the cost, coordination with the Federal Emergency Management Agency and other agencies, effectiveness of the response, strengths and weaknesses of the operation,

and specific problems and solutions.

Format

Hard copy.

Availability

Hard copy reports, records, and files are available for review in district

offices.

Additional Information

The Army Corps of Engineers also performs a variety of flood prevention

measures. Contact Robert Fletcher for further information.

Financial Assistance

Organization

Department of Education

Contact

Charles Hansen, Director Impact Aid Programs US Department of Education 400 Maryland Avenue, SW Washington, DC 20202-6244 Telephone: (202) 732-3637

FTS: 732-3637

Description

The Department of Education provides disaster aid to schools affected by Presidentially-declared disasters. Administrative records contain the amount of payments to states, counties, and Congressional districts. The Department of Education also produces an annual report which includes information on disaster aid to schools, such as: authorizing legislation, assistance that may be provided, administration of funds, appropriations, and a summary of the disaster assistance.

Format

Printed annual reports and case files.

Availability

Contact the Impact Aid Programs.

Additional Information

Administration of Public Laws 81-874 and 81-815 HEW Publication No. (OC) 78-07300, annual report of the Secretary of Education, Department of Education, Washington, DC. The section on disaster aid to schools contains several pages of narrative, and tables of state expenditures. For sale by the US Government Printing Office, Washington, DC 20402.

Financial Assistance

Organization

Farmers Home Administration

Contact

Aimee Fisher

Freedom of Information Officer Farmers Home Administration US Department of Agriculture Washington, DC 20250 Telephone: (202) 382-9638

FTS: 382-9638

Description

The Farmers Home Administration, FHA, makes emergency loans to family farmers, ranchers, and aquaculture operators to cover losses resulting from natural disasters. Loan funds may be used for annual farm operating

expenses, and other essentials for returning disaster victims' farming operations to financially sound bases. The FHA collected, catalogued, and computerized records of loans disbursed over the last 10 to 15 years by date, county, and disaster. Computerized data, from 1973 to present, are available on outstanding loans by county and state, including information on obligations, average size of loans, applications received, active borrowers, and delinquent borrowers. Summaries of emergency loans by state and disaster designation code (M-Presidential, S-Secretarial, N-Administrator's) are available for each fiscal year since 1972.

Format

Computerized records of outstanding loans and hard copy summaries of emergency loans are updated annually.

Availability

Computerized records for outstanding loans and hard copy summaries of emergency loans are available for the cost of duplication.

Additional Information

Farmer Program Statistics, 1939-1975, US Department of Agriculture, Farmers Home Administration, Washington, DC, 1977.

Farmer Program Statistics, 1976-1977, US Department of Agriculture, Farmers Home Administration, Washington, DC 1978.

Status of Loan and Grant Obligations/Allotments or Distribution, Report 205, US Department of Agriculture, Farmers Home Administration, Finance Office, Washington, DC.

Report of Emergency Loans Made Pertaining to Disasters through Month Ending September, 1988. Report 509. US Department of Agriculture. Farmers Home Administration. Finance Office. Washington, DC. Annual summary of emergency loans by state and designation code.

Financial Assistance

Organization

Small Business Administration

Contact

Bernard Kulik, Deputy Associate Administrator for Disaster Assistance US Small Business Administration 1441 L Street, NW, Room 820 Washington, DC 20416 Telephone: (202) 653-6879

Telex: 202-653-2262

Description

The US Small Business Administration, SBA, provides long-term, low-interest loans to disaster victims, which enable them to repair or replace their damaged property. SBA is the primary Federal resource for this type of disaster assistance. SBA provides Home Disaster Loans for homeowners or renters to repair or replace disaster-related damage to homes or

personal property. SBA provides Business Physical Disaster Loans for businesses to repair or replace disaster-related damaged property, including inventory and supplies. SBA also provides Economic Injury Disaster Loans for small agricultural cooperatives and businesses to assist them through the disaster recovery period. These loans are available only if the business or its owners cannot obtain similar assistance from non-government sources.

Format

Loans.

Availability

Contact the SBA.

Medical

Organization

National Disaster Medical System

Contact

Loretta Gainor, Director

National Disaster Medical System

5600 Fishers Lane Rockville, MD 20857 Telephone: (301) 443-4893

Description

The National Disaster Medical System, NDMS, deals with medical care needs in disasters of great magnitude. Based on the concepts of the Civilian Military Contingency Hospital System, NDMS is a cooperative effort of the Department of Health and Human Services, the Department of Defense, the Federal Emergency Management Agency, the Veterans Administration, state and local governments, and the private sector. NDMS comprises 150 disaster medical response units to assist civilian casualties, anevacuation system, and 100,000 pre-committed beds in hospitals throughout the US.

Format

Technical assistance and hard copy documents.

Availability

Contact NDMS directly.

Additional Information

<u>Disaster Medical Response Catalogue of Courses, Media Resources & Information Materials.</u> National Disaster Medical System.

<u>Disaster Medical Assistance Team Organization Guide</u>. National Disaster Medical System.

Psychological

Organization Center for the Study of Psychological Response in Disaster Emergencies

Contact Michael Blumenfield, Director

Center for the Study of Psychological Response in Disaster Emergencies

New York Medical College Psychiatric Institute, Room B006

Valhalla, NY 10595 Telephone: (914) 285-7618

Description The Center for the Study of Psychological Response in Disaster

Emergencies, PRIDE, consists of multi-disciplinary consultants who deal

with the psychological components of disasters and related issues.

Format Consultants are available depending on the situation.

Availability By arrangement.

Search & Rescue

Organization Search and Rescue Dog ALERT

Contact Judy Graham, Editor

Search and Rescue Dog ALERT

PO Box 39

Somerset, CA 95684 Telephone: (916) 621-1833

Description Search and Rescue, SAR, dogs help locate victims of a wide range of

hazards such as, avalanches, plane crashes, and urban disasters. ALERT acts as a primary source of information on SAR dogs in the US and worldwide. SAR ALERT publishes its newsletter, ALERT, eight times per

year.

Format SAR ALERT offers a newsletter, as well as technical assistance, such as

answering questions and making referrals.

Availability

A subscription to <u>ALERT</u> is \$6.50 per year in the US, \$8 per year in Mexico and Canada, and \$10 per year in other foreign countries.

Additional Information

Hardy, Marian. National Search and Rescue Dog Directory. 1988. Search and Rescue: Somerset, CA.

See also the following appendices:

- Emergency Management
 Small Business Administration
 World Health Organization

Disaster Management: Africa

Organization Panafrican Center for Emergency Preparedness and Response

Contact Sandro Calvani, Director

Panafrican Center for Emergency Preparedness and Response

PO Box 3050 Addis Ababa Ethiopia

Telephone: 002511-515460 / 002511-514416 Telex: 21548 WHO/EPR Addis Ababa

Telefax: 002511-514416 / 002511-514682 (attn: WHO/EPR)

Description In 1989 the World Health Organization, WHO, opened the Panafrican

Center for Emergency Preparedness and Response, EPR. The EPR works to strengthen the emergency preparedness and response of WHO member states in Africa. EPR recognizes that effective disaster mitigation can only be achieved as part of a broader program of national development. EPR publishes disaster reports and The Ark--their newsletter, maintains a library, and conducts training in disaster management. EPR will improve the efficiency of emergency health response, sponsor field research, assess needs, examine policy, and develop emergency plans for hazard-prone areas

on the continent.

Format Technical assistance and hard copy publications.

Availability To learn more about EPR's program for promoting disaster management in

Africa and to obtain the Center's newsletter, contact Sandro Calvani.

Disaster Management: The Americas

Organization Organization of American States

Contact Stephen Bender, Project Chief Organization of American States

1889 F Street NW Washington, DC 20006 Telephone: (202) 458-3005

Telex: 64128

Telefax: (202) 458-3967

Description The Organization of American States, OAS, provides technical assistance

and publications on natural hazards, natural resources, population, and

infrastructure.

Format Hard copy documents and maps, and geographic information systems

compatible diskettes.

Availability Information is available to OAS members. Contact the headquarters listed

above for more information.

Disaster Management: Central America

Organization Center of Coordination for Prevention of Natural Disasters in Central

America

Contact Aristoteles Vergara Munoz, Executive Secretary

Center of Coordination for the Prevention of Natural

Disasters in Central America 7a Ave. 14-57, Zona 13 01013 Guatemala

Telephone: (502) 2-348317 Telex: (502) 2-348318

Description The Center of Coordination for the Prevention of Natural Disasters in

Central America provides financial support for risk analysis on:

earthquakes, volcanic eruptions, floods, and landslides in Central America. The Center maintains a catalog of Central American earthquakes from 1904

through 1987.

Format Hard copy.

Availability Information is available upon request.

Additional

Information The Center will provide information on Central America's risk-reduction

process.

Disaster Management: International

Organization

CSIRO, Division of Wildlife and Ecology

Contact

John Ive, Manager

Division of Wildlife & Ecology

CSIRO PO Box 84

Lynearm, ACT 2602

Australia

Telephone: [61] (62) 421303 Telex: [61] (62) 413343

Description

CSIRO operates a computer-based, decision support system for rapid definition and profiling of impact zones associated with natural disasters and other catastrophic events. The support system accesses national data sets

which can be used for pre- and post-disaster planning.

Format

The computer package is being developed for IBM computers.

Availability

Currently, a demonstration version is available. Packages will be available

for sale in 1990.

Additional

Information

Contact John Ive for further information.

Disaster Management: International

Organization

United Nations Disaster Relief Coordinator

Contact

John Tomblin, Chief

Prevention and Support Services Branch

UNDRO: Office of the United Nations Disaster Relief Coordinator

Palais des Nations 1211 Geneva 10 Switzerland

Telephone: [41] (22) 34.60.11 Telex: [41] 28148 undr ch Telefax: [41] (22) 33.56.23

Philippe Boullé, Director

UNDRO

United Nations, Room S-2935 New York, NY 10017 Telephone: (212) 963-5705

Description

The United Nations Disaster Relief Coordinator, UNDRO, maintains a computer information network known as UNIENET, United International Emergency Network. UNIENET links together a network of computers, and contains information from other United Nations bodies, governmental agencies, and nongovernmental groups. The network places members of the worldwide, disaster management community in direct contact with each other, and provides them instantaneously with both background and operational disaster-related information. A computer terminal or personal computer allows access to the network.

UNIENET provides electronic mail service which allows you to exchange messages via computer with others having an interest in disaster management. UNIENET offers an electronic Bulletin Board of information on disaster-related subjects, and several data bases of detailed disaster-related information.

Format

On-line.

Availability

Contact UNDRO for costs.

Additional Information

Directory of Training Institutions for Disaster Management. 1989.

UNDRO: Geneva.

Disaster Management: US

Organization

Department of Agriculture

Contact

Ted Maher, Program Leader

Extension Service

US Department of Agriculture

3865 South Building Washington, DC 20250 Telephone: (202) 447-7185

Description

Agricultural extension educators provide local government officials with courses on establishing basic risk management programs for specific risks

and natural hazards.

Format

Manuals, handbooks, workbooks, courses, and video tapes.

Availability

Courses and materials are available upon request.

Disaster Management: US

Organization

Federal Emergency Management Agency

Contact

Project Officer

Integrated Emergency Management Information System

Federal Emergency Management Agency

500 C Street, SW Mail Stop FCP 626A Washington, DC 20472 Telephone: (202) 646-3923

Description

The Federal Emergency Management Agency, FEMA, created the Integrated Emergency Management Information System, IEMIS. IEMIS is part of a comprehensive National Emergency Management System. IEMIS combines state-of-the-art communications, computer simulations, and color graphics to support decision-making in emergency management. IEMIS integrates conventional emergency response resources with new automated capabilities for single users or coordinated groups. FEMA headquarters in Washington, DC, ten regional FEMA offices, and the National Emergency Training Center, each house IEMIS work stations. FEMA also makes the system accessible to local, state, and other Federal officials for use according to their special needs. Emergency management officials may use a variety of equipment, from personal computers to minicomputers, to interact with IEMIS. IEMIS will give these officials a common basis for sharing data, cooperative planning, and interaction during simulated emergencies. These activities will also pave the way for the use of IEMIS in coordinating operations during real emergencies.

The goals of IEMIS are to: apply state-of-the-art automated data processing technology to emergency management; establish a dedicated, interactive computer system for the nation's emergency management community; foster the use and maintenance of integrated data bases among emergency managers and; encourage the use of similar technology for training, planning and emergency operations. IEMIS software includes computer utilities for: text processing, electronic communications, data base development and management, file management, business graphics, access to National Weather Service data; computer models for meteorological conditions, radiological dosage, heat radiation hazard, evacuation dynamics, and the development of expert systems; interactive color display and editing of an extensive national map data base which forms the background images for all model runs.

Format

IEMIS combines of computer hardware and software. The hardware core is located in a central minicomputer at FEMA headquarters in Washington, DC.

Availability

Contact the IEMIS project officer.

Additional Information

"Integrated Emergency Management Information System: Questions and Answers." Federal Emergency Management Agency. 1987. Washington, DC.

Disaster Management: US

Organization

University Center for Social and Urban Research

Contact

Pamela Snyder, Project Manager

University Center for Social and Urban Research

University of Pittsburgh 1701 Cathedral of Learning Pittsburgh, PA 15260 Telephone: (412) 624-5524

Description

The Crisis Response Conclusion Retrieval System, CRCRS, is a data base management system that accesses conclusions derived from documents concerning behavior and attitudes associated with emergency management and disaster research. The primary output from CRCRS is conclusions and bibliographic information covering approximately the last twenty years. Conclusions are accompanied by information on--the methodology of the documents from which the conclusions were drawn, and assessments to help one decide how much confidence to place in each conclusion.

Format

CRCRS is available on 18 high density, double sided disks. The DOS command <u>Backup</u> was used to copy the system onto the diskettes from the subdirectory CRCRS.

Availability

In order to install CRCRS on your machine, you will need at least 20 megabytes of space on your hard disk and a high density drive. First, you must set up a subdirectory called CRCRS, then use the DOS command Restore to copy the files from the diskettes into the subdirectory on your hard disk area. The diskettes are numbered, and must be restored in sequence, 1 to 18. Please refer to your MS-DOS manual for the proper commands. Documentation for CRCRS is provided with the program.

The Federal Emergency Management Agency will make CRCRS available to the research community. For details, contact:

Ralph Swisher
Federal Emergency Management Agency
Room 602
500 C Street, SW
Washington, DC 20472
Telephone: (202) 646-3561

Additional Information

In addition, searches for conclusions on specific topics may be requested from the Center for Social and Urban Research from 9:00 am to 5:00 pm EST, weekdays. A hard copy of the conclusion printout will be supplied to the individual without charge. For more information contact Pamela Snyder at the Center for Social and Urban Research at the above address.

Emergency Coordinator

Organization

Department of Agriculture

Contact

Leonard Mandrgoc, Emergency Coordinator

Office of Personnel **Emergency Programs**

US Department of Agriculture Room S-302, S Building Washington, DC 20250-9600 Telephone: (202) 447-5711

FTS: 447-5711

Description

The Emergency Coordinator directs US Department of Agriculture's, USDA, crisis preparedness and response activities for natural and humanmade disasters and civil defense. Key functions include maintaining the continuity of government in a national emergency, response, and recovery. Regional, state, and county emergency staffs assist the national office.

Format

The Emergency Coordinator does not collect natural hazards data, but serves as a point of contact for USDA emergency preparedness.

Availability

Contact Leonard Mandrgoc.

Emergency Coordinator

Organization

Department of Commerce

Contact

R. Bruce Pelton, Emergency Coordinator

Office of the Secretary

Emergency Planning and Coordinating Division 14th & Constitution Avenue, Room 683A

US Department of Commerce Washington, DC 20230 Telephone: (202) 377-3627

FTS: 377-3627

Description The Emergency Coordinator provides planning assistance to Department of

Commerce offices which are developing emergency preparedness plans and programs. The Emergency Coordinator monitors, reviews, and reports on all such plans and programs. The Coordinator, the primary contact for emergency programs within the Department of Commerce, maintains lists of program supervisors, personnel, and technical experts for emergency

preparedness activities at the national and regional levels.

Format The Emergency Coordinator does not collect natural hazards data, but may

be a point of contact.

Availability Contact Bruce Pelton.

Additional Information "The Contact Guide: National Security Em

"The Contact Guide: National Security Emergency Preparedness." July 1988. FEMA Doc.FPG6.101.

Emergency Coordinator

Organization Department of Labor

Contact William McLoughlin, Emergency Coordinator

US Department of Labor 200 Constitution Avenue, NW Washington, DC 20210 Telephone: (202) 523-6414

FTS: 523-6414

Description The Department of Labor's Emergency Coordinator does not collect or

maintain data on natural hazards, but does participate in various emergency preparedness planning functions, including the Earthquake Hazard Reduction Program. The Department, being more oriented toward economic and nuclear crises, has limited responsibilities in natural

disasters. The Emergency Coordinator could serve as a point of contact for

information.

Format Individual contact.

Availability Contact William McLoughlin.

Emergency Coordinator

Organization

Department of Transportation

Contact

Lloyd Milburn, Emergency Coordinator Office of Emergency Transportation US Department of Transportation

400 Seventh Street, SW Washington, DC 20590 Telephone: (202) 366-5270

FTS: 366-5270

Description

The Emergency Coordinator develops, coordinates, and reviews policies, plans, and programs for attaining and maintaining a high state of civil transportation. Emergency preparedness policies include: all emergencies which affect national defense at a national or regional level, including emergencies caused by natural disasters and other crisis situations. Specifically, the Emergency Coordinator oversees damage assessments to the civil transportation system from military attacks, natural disasters, or other crises, and prepares plans and procedures for its repair.

Format

The Emergency Coordinator does not collect data, but maintains lists of

national, regional, and field-level emergency staffs.

Availability

Contact Lloyd Milburn.

Emergency Education: The Americas

Organization

Emergency Preparedness & Disaster Relief Coordination Program

Contact

Claude de Ville de Goyet, Chief

Emergency Preparedness & Disaster Relief Coordination Program

Pan American Health Organization 525 Twenty-third Street, NW Washington, DC 20037 Telephone: (202) 861-4325 Telex: 201535(PED)

Telefax: (202) 775-4578

Description

The Pan American Health Organization's, PAHO, Emergency Preparedness Program produces disaster preparedness training materials for member countries in Latin America and the Caribbean. PAHO also maintains Disaster Preparedness Update: A Computerized Index of Emergency Preparedness and Disaster Relief Bibliography. This computerized guide provides information on documents collected by PAHO's Emergency

Preparedness and Disaster Relief Offices. Both published and unpublished

books and reports in English, French, and Spanish are available.

Format Materials are print scientific publications, slide programs, video

presentations, and a computerized index.

Availability Material may be requested directly from PAHO.

Additional Information

Write PAHO for a list of available material.

Emergency Education: The Americas

Organization

Partners of the Americas

Contact

Howard Spielgelman, Director **Emergency Preparedness Program** 1424 K Street, NW, Suite 700 Washington, DC 20005 Telephone: (202) 628-3300 Telefax: (202) 628-3306

Telex: 64261 NAPAR

Description

Partners of the Americas, a non-profit organization created in 1964, carries out grass-roots, self-help projects, via volunteers, which enhance the economic, social and community development of the Americas. Through Partners of the Americas, US states are paired with Latin American and Caribbean countries to form "partnerships," for developing projects in: agriculture, community development, special education, university linkages, women and youth serving programs, cultural exchanges, and in many other areas. In 1984, Partners of the Americas initiated an Emergency Preparedness Program to promote the exchange and development of emergency preparedness professionals and programs throughout the hemisphere. The program offers the exchange of emergency management professionals and information, small assistance grants, and emergency preparedness training. Partners of the Americas also provides disaster assistance, usually in the form of technical assistance and small projects which focus on rehabilitation and recovery needs.

Format

Partners provides grants which partially cover travel expenses for volunteers to provide technical assistance to designated "partner areas" of Latin America and the Caribbean, and for Latin American and Caribbean emergency management professionals to visit the US.

Availability

Contact Partners at the above address or via computer: TYMNET:(On Tyme)DNA.NAPA.

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Emergency Education: Canada

Organization

Emergency Preparedness Canada

Contact

Mike Theilmann, Information Officer Emergency Preparedness Canada

122 Bank Street

Jackson Building, 2nd Floor Ottawa, Ontario K1A 0W6

Canada

Telephone: (613) 991-7038

Description

Emergency Preparedness Canada maintains a range of free publications, on various emergency preparedness topics, and a small selection of videos. Publications are available which describe its mandate and activities. Videos on severe storms, earthquakes, and general emergency preparedness are available. Printed materials include: Emergency Preparedness Digest, a quarterly magazine covering the whole spectrum of emergency planning; Self-Help Advice Booklets on earthquakes, floods, severe storms, winter power failures, winter driving, and woods safety tips; and reports on specific

disasters or topics.

Format

Hard copy and audio-visuals.

Availability

Publications are available free of charge upon request. Audio-visual material is sent out on a loan basis.

Emergency Education: Canada

Organization

Simon Fraser University

Contact

Peter Anderson

Department of Communication and Continuing Studies

Simon Fraser University Burnaby, BC V5A 1S6

Canada

Telephone: (604) 291-3687 Telefax: (604) 291-4045

Description

Under the sponsorship of Emergency Preparedness Canada, Simon Fraser University, SFU, in Burnaby, British Columbia, established a

microcomputer-based electronic bulletin board on emergency preparedness. This newly established, 1989, project intends to stimulate networking and regular exchange of ideas and information among members of the emergency preparedness community. The system's structure will be continually modified to reflect users' needs. Currently, the bulletin board

encompasses seven areas of interest: hazards/risks, emergency planning, emergency communications, health services, emergency social services, search and rescue, and training/education.

The content of each area will be determined, in part, by user input. However, additional material will be obtained from other sources such as the University of Delaware's Disaster Research Center computer network, SFU research, and conference papers. In addition, it is anticipated that the bulletin board will be used to conduct conferences among persons involved in emergency management who, because of scheduling or financial restrictions, would otherwise be unable to meet.

Format

On-line.

Availability

The bulletin board is free to users, except where long distance telephone

charges apply.

Additional Information

For more information on the system and a description of the sign-on procedures, contact Peter Anderson.

Emergency Education: Caribbean

Organization

Pan Caribbean Disaster Preparedness and Prevention Project

Contact

Jennifer Roman, Document Specialist

Pan Caribbean Disaster Preparedness and Prevention Project

PO Box 1399 America Road St. John's Antigua

Telephone: (809) 462-4432/35

Telex: 2195 AK Telefax: (809) 462-4431

Description

The Pan Caribbean Disaster Preparedness and Prevention Project, PCDPPP, maintains a specialized collection of material pertaining to all aspects of disasters with emphasis on the Caribbean. PCDPPP collects material of all formats, and particularly public awareness and education material. PCDPPP's goal of disseminating disaster preparedness information reaches Caribbean countries and territories which are building

their own collections of disaster information.

Format

Monographs, periodicals, pamphlets, videotapes, audio-cassettes, slides and 16mm films.

Availability

While data cannot be accessed directly by computer, queries may be sent to PCDPPP by electronic mail through UNIENET. The call sign is UNXO15.

Additional Information

Natural Hazards of the Caribbean. Diane Bertrand. Pan Caribbean

Disaster Preparedness and Prevention Project. June 1988.

Emergency Education: Pacific Islands

Organization

East-West Center

Contact

Charles Lepani, Director

The Pacific Islands Development Program
Disaster Preparedness and Rehabilitation Project

East-West Center University of Hawaii 1777 East-West Road University of Hawaii Honolulu, HI 96848 Telephone: (808) 944-7745

Description

The Pacific Islands Development Program, PIDP, at the East-West Center helps meet the special development needs of the Pacific Islands through cooperative research, education, and training. A major objective of the Program has been to provide quality in-depth analytical studies on specific priority issues as identified by the Pacific Island leaders and people. The studies aim to provide leaders with detailed information and alternative strategies on policy decisions. The Program publishes books and reports on natural hazards, including, <u>Dealing With Disaster: Hurricane Response in Fiji, Procedures and Guidelines for Disaster Preparedness and Response</u>, and <u>Post-Disaster Assessment: Management</u>.

Format

Hard copy.

Availability

Contact the PIDP at the above address for a publication list. Some publications may be accessed through the interlibrary loan system.

Emergency Education: US

Organization

Federal Emergency Management Agency

Contact

Emergency Education Network

Federal Emergency Management Agency National Emergency Training Center

Emmitsburg, MD 21727 Telephone: (301) 447-1068

Description The Federal Emergency Management Agency's, Emergency Education

Network, EENET, presents satellite videoconferences covering

topics such as evacuation of the disabled, communicable disease issues, hazardous materials, and fire prevention and response. The broadcasts, which are one-way video, two-way audio, are transmitted on C band via satellite Spacenet 1, transponder 1, 102 degrees W. Viewers need access to a satellite dish receiver--available through colleges, local cable operators, hotels, and private owners, and a telephone with access to toll-free lines. The videoconferences are in the public domain, and continued rebroadcast

is encouraged by EENET.

Format Satellite communications.

Availability Videotapes and program transcripts of each broadcast are also available for

a modest cost.

Additional Information

For more information on these programs, contact EENET.

Emergency Education: Washington

Organization

Mothers for HELP

Contact

Beverly Carter Mothers for Help PO Box 8399 Kirkland, WA 98034 Telephone: (206) 820-6313

Description

Mothers for HELP wants to Help Everyone Learn Preparedness. Volunteers work with local fire departments and community groups in the state of Washington to establish neighborhood command centers and teach household preparedness. They work closely with local school districts to devise evacuation plans, provide I.D. cards for school children, and plan shelter programs to house children whose parents are unavailable after a disaster. Mothers for HELP also trains individuals in first aid, search and rescue skills, and the placement of survival items in schools, churches, and fire departments throughout their neighborhoods.

While acknowledging the lack of electronic communication in the aftermath of a major earthquake, Mothers for HELP created a "signal ribbon" method of informing rescue workers of the status of members of each household in a community. "Signal ribbons" save rescue workers time. A family which hangs a green ribbon on the front door indicates that all members are safe. A yellow ribbon signifies the presence of an injured person, and a red ribbon denotes a person in a life-threatening situation.

Format

Community activism.

Availability

Send a self-addressed stamped envelope for further information.

Health: Europe

Organization

European Center for Disaster Medicine

Contact

S. Gunn, Director La Panetiere 1261 Bogis Bossey Switzerland

Description

The European Center for Disaster Medicine, an intergovernmental, international organization, was established in 1986 under the aegis of the Council of Europe. The Center is situated in the Republic of San Marino. The Center promotes the prevention and mitigation of natural and technological disasters. The Center conducts training, supports research, coordinates health assistance, and provides disaster information. The Center works in cooperation with the World Health Organization, Office of the United Nations Disaster Relief Coordinator, universities, and civil protection associations.

Coordination of medical disaster assistance for Europe is a top priority. The Center promotes interdisciplinary and international cooperation in medical assistance and disaster management.

The Center's information program consists of four components:

- 1) collects information and enters it into computerized files;
- 2) maintains a data bank which facilitates quick access to teaching materials and bibliographic information on disaster management;
- 3) maintains a specialized library of disaster literature;
- 4) publishes and distributes teaching materials, manuals, papers, and proceedings which reflect the concerns and activities of the Center.

Format

Technical assistance, hard copy, and computerized materials.

Availability

Interested persons are invited to contact S. Gunn or the Center.

Additional Information

The European Center for Disaster Medicine itself is located at the: State Hospital

47031 Republic of San Marino

Telephone: 39 (0) 549-994535 / 906244

Telefax: 39 (0) 549-903706

Health: International

Organization

World Health Organization

Contact

K. Elo, Head

Emergency Preparedness and Response

World Health Organization

20 Avenue Appia CH 1211 Geneva 27

Switzerland

Telephone: [41] (22) 791-2777 Telex: [41] 5416 OMS CH Telefax: [41] (22) 791-07-46

Description

The World Health Organization's Emergency Preparedness and Response

Program, EPR, maintains a collection of documents on emergency preparedness and disaster relief, specifically health and disasters.

Format

Hard copy documents, slide sets, videotapes, technical assistance.

Availability

Contact K. Elo of EPR.

Health: US

Organization

National Institute of Mental Health

Contact

Chief

Emergency Services Branch

National Institute of Mental Health 5600 Fishers Lane, Room 7C-02

Rockville, MD 20857 Telephone: (301) 443-4735

Description

The Emergency Services Branch of the National Institute of Mental Health produces disaster response training materials for human service workers, mental health workers, and emergency managers which prepare them for

the psychosocial issues of disasters.

Format

Monographs and audio-visuals.

Availability

Many single copies of monographs are available free of charge, and copies

of films may be loaned free of charge.

Additional Information

Contact the Office of Scientific Information, Public Inquiries, National Institute of Mental Health, 5600 Fishers Lane, Room 15C-05, Rockville, MD 20857 for further information about obtaining a list of monographs, and audio-visuals, as well as ordering details.

Nuclear Reactor Safety Research

Organization Nuclear Regulatory Commission

Contact Public Affairs Office

Nuclear Regulatory Commission Washington, DC 20555

Telephone: (301) 492-0240

FTS: 492-0240

Description The Nuclear Regulatory Commission, NRC, provides detailed reports on

nuclear facility safety, including assessment of natural hazards.

Format Printed reports, documents, applications. Congressional testimony.

Availability Materials are available for review in the public documents room of the

NRC.

Shelter Data Base

Organization

Federal Emergency Management Agency

Contact

Lida Whitaker

Federal Emergency Management Agency

500 C Street, SW, Room 603 Washington, DC 20472 Telephone: (202) 646-3061 FTS: (202) 646-3061

Description

The Shelter Data Base results from three surveys:

- 1) National Facility Survey: identifies fallout shelters in buildings nationwide.
- Reception and Care Survey: identifies facilities which can provide temporary lodging for evacuees from major disasters including nuclear attack.
- 3) Natural Hazard Vulnerability Survey: identifies the relative vulnerability

of buildings exposed to earthquakes, high winds, hurricanes, tornadoes, and floods. Essentially all structures nationwide are surveyed with the exception of private residences.

Format

Computerized.

Availability

Costs depend on the nature of the request and user. Requests should be sent to the Federal Emergency Management Agency Computer Center.

Eugene Ushinski Federal Support Center 5321 Riggs Road Gaithersburg, MD 20822 Telephone: (301) 926-5305

Warning System

Organization

Geological Survey

Contact

Assistant Director

Engineering Geology Department

US Geological Survey 106 National Center Reston, VA 22092

Telephone: (703) 648-4422

FTS: 959-4422

Description

The Department of Engineering Geology coordinates the US Geological Survey's warning and preparedness system. This warning system identifies geologic-related hazards The USGS, under the Disaster Relief Act of 1974 and executive orders in 1975 and 1976, was delegated this responsibility. The warning system coordinates: the identification of hazards through the work of field scientists, the evaluation of the potential severity of hazards, the determination of USGS policy for issuing public notifications concerning hazards, and the coordination of information releases with appropriate state

and local governments.

Format

Printed press releases, letters transmitting hazard notices, and supporting documents are available for the cost of duplication from address below. Published reports are available through the US Geological Survey's

distribution centers.

Availability

Contact the Engineering Geology Department.

Additional Information

Federal Register Statement, Vol.42, No.70, pp. 19292 to 19296, April, 1977.

Procedures and definition of USGS responsibilities.

"Revision of Terminology for Geologic Hazard Warnings," Vol. 99, No. 21,

January 31, 1984.

Warning System

Organization

National Weather Service

Contact

Donald Wernly, Chief

Warning and Forecast Branch National Weather Service 8060 13th Street, Room 1326 Silver Spring, MD 20910 Telephone: (301) 427-8090

FTS: 427-7342

Description

The National Weather Service provides hazard awareness materials such al brochures, films, videotapes, and slide sets for the general public. These materials cover the following hazards: hurricanes, fire weather, heat waves, tornadoes, floods, lightning, severe storms, tsunamis, winter storms, and

space forecasts for solar and geomagnetic activity.

Format

Hard copy and audio-visual materials.

Availability

Contact the national logistics supply center for the National Weather

Service in Kansas City, MO 64131.

See also the following appendices:

- Emergency Management
- Army Corps of Engineers
- FEMA
- Small Business Administration
- World Health Organization

Arid Lands

Organization

Arid Lands Information Center

Contact

Manager

Arid Lands Information Center Office of Arid Lands Studies University of Arizona 845 North Park Avenue Tucson, AZ 85719 Telephone: (602) 621-7897 Telex: 1561507 ARID UT

Description

The Arid Lands Information Center, ALIC, builds, maintains, and provides public access to their arid lands document collection of 30,000 items. ALIC provides reference services to researchers, US and other governmental agencies, international organizations, and the general public. ALIC disseminates and exchanges information on the nature, development, and management of arid lands. The Center publishes The Arid Lands Newsletter, special bibliographies, conference proceedings, environmental profiles, and organizational directories. In 1988 ALIC prepared Arid Lands

Research Institutions: A World Directory.

Format

Hard copy documents and computerized data bases.

Availability

Contact ALIC for a publications list. Office hours are 8 am to noon

and 1 pm to 5 pm.

Disaster Management: Australia & Pacific Region

Organization

Disaster Management Studies Center

Contact

Neil Britton, Director

Disaster Management Studies Center Cumberland College of Health Sciences

East Street PO Box 170

Lidcombe, Sydney NSW 2141

Australia

Telephone: [61] (2) 646-6444 Telefax: [61] (2) 646-4853

Description

Cumberland College of Health Sciences in Sydney, Australia established the Disaster Management Studies Center, DMSC, because of a need for

research and training in disaster management. The Center has seven objectives:

- To promote disaster research and teaching in the southern hemisphere and to generate greater awareness of the need for emergency management;
- To develop curricula and training materials relating to disaster and emergency health management;
- 3) To provide expert advice on matters in these areas;
- 4) To conduct research throughout Australia, the western Pacific, and other regions;
- To collaborate with existing institutions to develop greater expertise in disaster management;
- 6) To collect and disperse pertinent information; and
- 7) To communicate and work with other experts, institutions, and agencies involved in disaster and health emergency programs to promote disaster management throughout the region.

These objectives result in five activities: research, teaching, training, disseminating information, and consulting. Several Cumberland College faculty members are involved in the Center, and the college offers undergraduate courses in disaster management.

Format

Technical assistance, hard copy materials.

Availability

For further information about the DMSC, contact Neil Britton.

Disaster Management: International

Organization

Disaster Management Center

Contact

Don Schramm, Director
Disaster Management Center
University of Wisconsin at Madison

Department of Engineering Professional Development

432 North Lake Street Madison, WI 53706

Telephone: (800) 262-6243 or (608) 262-2061

Telex: 265452

Description

Founded in 1982, the Disaster Management Center, DMC, offers educational programs on the management of international, natural disasters and emergencies that involve refugees and displaced persons. Although the DMC focuses on international disaster management, one may apply findings to domestic emergencies. DMC offers 15 self-study course modules for use in hazard-prone areas outside the United States. Some courses are available in Spanish, and the DMC plans to translate its course modules into other languages.

Format

Hard copy and a video series.

Availability

Contact DMC at the above address for course descriptions and applications.

Disaster Management: The Netherlands

Organization

Disaster and Emergency Reference Center

Contact

Krisno Nimpuno, Director

Disaster and Emergency Reference Center

PO Box 5048 2600 GA DELFT The Netherlands

Telephone: (015) 78-44-04 Telex: 38151 butud nl for derc Telefax: (015) 76-18-55 for derc

Description

The Disaster and Emergency Reference Center, DERC, studies both human-made and natural disasters in developing countries. Through such studies DERC aims to improve the quality of disaster mitigation efforts. DERC is developing a collection of disaster preparedness, prevention, mitigation, relief, and rehabilitation case studies. Currently, DERC is compiling a directory of Dutch experts and institutions related to disaster

mitigation.

Format

Hard copy and technical assistance.

Availability

Please contact Krisno Nimpuno.

Additional

Information

"DERC: Disaster & Emergency Reference Center." (Pamphlet).

Disaster Management: New Zealand

Organization The National Civil Defense Resource Center

Contact Doug Bent, Civil Defense Commissioner

Ministry of Civil Defense

The National Civil Defense Resource Center

PO Box 5010 Wellington New Zealand

Telephone: [64] (04) 738-699 Telex: [64] CIVDEX NZ3410 Telefax: [64] (04) 712-197

Description The National Civil Defense Resource Center maintains bibliographic and

audio-visual materials on civil defense for research, planning, and educational purposes. Most information held relates to New Zealand although the Center also holds much overseas information. Specifically, the Center maintains publications and periodicals on civil defense, reports on past disasters and civil defense emergencies, civil defense plans, and instructional and public awareness materials. All holdings are currently

being catalogued on a personal computer data base.

Format Hard copy and audio-visual.

Availability Make requests for information by writing to Doug Bent.

Additional New Zealand Ministry of Civil

New Zealand Ministry of Civil Defense. "Facts: The Who, Why and How

of New Zealand's Civil Defense System." (Pamphlet).

Disaster Research: Australia

Organization Australian Counter Disaster College

Contact Australian Natural Disaster Organization

Australian Counter Disaster College

Mt. Macedon 3441

Victoria Australia

Telephone: [61] (054) 261-205

Description The Australian Natural Disaster Organization, ANDO, publishes The

Macedon Digest, a newsletter designed to disseminate recent disaster news and views to practitioners. The quarterly newsletter provides managers, planners, trainers, and researchers working on disaster mitigation and civil

defense with problems and topics specific to the Australian and southwest

Pacific region.

Format

Hard copy newsletter.

Availability

The publication is available free to all interested organizations and

individuals.

Additional Information

Persons interested in receiving or contributing to the newsletter should

contact The Macedon Digest at the above address.

Disaster Research: International

Organization

Disaster Research Center

Contact

JoAnne Nigg, Director Disaster Research Center University of Delaware Newark, DE 19716

Telephone: (302) 451-6618

BITNET: ACJ00984@UDACSVM.BITNET INTERNET: ACJ00984@acsvm.acs.udel.edu

Description

The Disaster Research Center, DRC, the first of its kind, was established at Ohio State University in 1963, and moved to the University of Delaware in 1985. The Center engages in a variety of sociological and social science research on group and organizational preparations for, responses to, and recovery from community-wide emergencies, particularly natural and technological disasters. Since the Center's inception, there have been over 490 different field studies. The Center has a number of professionals on its staff, and activities are supported by diverse sources: the National Science Foundation, National Institute of Mental Health, Department of the Interior, and the Federal Emergency Management Agency to name a few.

Format

Hard copy and electronic mail.

Availability

Contact the DRC for availability.

Additional Information

Contact the DRC for a list of publications.

Disaster Research: Japan

Organization

National Research Center for Disaster Prevention

Contact

Masataka Kominami, Head of Data Section National Research Center for Disaster Prevention

Science and Technology Agency 3-1, Tennodai, Tsukuba-shi

Ibaraki-ken, 305

Japan

Description

The National Research Center for Disaster Prevention, NRCDP, promotes synthetic research on technology for natural disasters; collects, analyzes and presents documents related to technology for disaster prevention; maintains large-scale earthquake and rainfall simulators; and dispatches cooperative research officers to related organizations in order to cooperate in their studies. The Center's studies span the field of natural disasters from earthquakes to snowfall damages.

Format

Hard copy and technical assistance.

Availability

Contact Masataka Kominami.

Additional Information

National Research Center for Disaster Prevention. Research Activities of the National Research Center for Disaster Prevention.

Institute of Snow and Ice Studies

National Research Center for Disaster Prevention

187-16, Maeyama, Suyoshi Omachi, Nagaoka-shi Niigata-ken, 940 Japan Telephone: 0258-35-7522 Telefax: 0258-35-0020

Hiratsuka Branch of Oceanographic Studies National Research Center for Disaster Prevention

9-2, Nijigahama, Hiratsuka-shi Kanagawa-ken, 254, Japan Telephone: (81) 0463-32-7159 Telefax: (81) 0463-33-3635

Disaster Research: US

Organization

National Research Council

Contact

Riley Chung, Director National Research Council

Division of Natural Hazard Mitigation

Room HA 286

2101 Constitution Avenue Washington, DC 20418 Telephone: (202) 334-3312

Description

The Division of Natural Hazard Mitigation examines various natural hazards, forms of disaster assistance, and related government programs and policies. The Division conducts post-disaster studies worldwide on a variety of natural hazards including: earthquakes, floods, landslides, tornadoes, and hurricanes.

Format

Hard copy reports.

Availability

Contact Riley Chung for a list of publications and costs.

Disaster Research: US

Organization

Wharton Risk and Decision Processes Center

Contact

Howard Kunreuther, Director

Wharton Risk and Decision Processes Center

1303 Steinberg-Dietrich Hall University of Pennsylvania Philadelphia, PA 19104 Telephone: (215) 898-5688

Description

The Wharton Risk and Decision Processes Center increases understanding of disaster potential, and analyzes programs for dealing with them. The Center seeks to discover how people assimilate probabilistic information. The Center's research reaches into the fields of decision sciences, economics, finance, insurance, management, marketing, policy analysis, and psychology.

psychology.

Format

Hard copy and technical assistance.

Availability

Contact Howard Kunreuther.

Environmental Research: International

Organization

Datum International

Contact

James Lewis, Director Datum International 101 High Street

Marshfield, nr. Chippenham Wiltshire, SN 14 8LT United Kingdom

Telephone: [44] (225) 891426 Telex: (44) 46625 WECO G

Description

Datum International examines issues dealing with the environment and human settlements. Datum International analyzes regions, communities, locations, buildings, institutions, and systems in relation to natural environments, in particular hazards, accidents, and risk and vulnerability assessments. Datum International publishes books, reports, monographs, bibliographies, and articles. The group also conducts research and training.

Format

Hard copy and technical assistance.

Availability

All documents carry a nominal charge to cover costs of copying and postage. Overseas payments should be made by check at the prevailing London currency, and should include the equivalent of £5.00 to cover bankers' charges.

Additional Information

Contact Datum International for information on their workshops and seminars. Many of their publications are also available from the Disaster Information Service of the Joint Assistance Center, H-65 South Extension 1, New Delhi 110049 India.

Environmental Research: International

Organization

Environmental Protection Agency

Contact

Head Reference Librarian

US Environmental Protection Agency

Information Services and Management Division

Headquarters Library, PM-211A 401 M Street, SW, Room 2904 WSM

Washington, DC 20460 Telephone: (202) 382-5921

FTS: (8) 382-5921

Description The INFOTERRA data base, an international environmental network of

135 countries, serves as an environmental referral organization providing

sources, documents, and bibliographic information to inquirers. INFOTERRA comes under the auspices of the United Nations Environment Programme, and in 1975 the US Department of State

designated the Environmental Protection Agency as the US National Focal

Point for INFOTERRA.

Format

Hard copy and technical assistance.

Availability

Contact the Environmental Protection Agency.

Environmental Research: US

Organization

INFORM

Contact

Jerri McDermott, Publications Manager

INFORM

381 Park Avenue South New York, NY 10016 Telephone: (212) 689-4040

Description

INFORM, a nonprofit environmental research and educational organization, identifies and reports on practical actions for the preservation and conservation of natural resources and public health. INFORM's current research focuses on such critical environmental issues as hazardous waste reduction, garbage management, urban air pollution, and land and water conservation. INFORM Reports is the group's bimonthly newsletter. In addition, more than 31 reports are available, including Garbage

Management in Japan, Tracing a River's Toxic Pollution, and Controlling

Acid Rain.

Format

Hard copy.

Availability

Books may be purchased at catalog prices plus \$2.50 for postage and handling. A subscription to <u>INFORM Reports</u> costs \$25 per year.

Environmental Research: US

Organization University of Illinois at Urbana-Champaign

Contact Deanna Glosse, Project Coordinator

Environmental Technical Information System University of Illinois at Urbana-Champaign

1003 West Nevada Urbana, IL 61801

Telephone: (217) 244-5359

Description The Environmental Technical Information System, ETIS, a collection of

information systems, assists planners and decision makers in making better and more informed decisions. Their three primary programs are:

economic impact forecast system, computer-aided environmental legislative data system, and soils systems. Environmental Information Connection, a data base search service is also available through ETIS. The staff can assemble bibliographies, search environmental topics, or supply contact

names of environmental organizations or businesses.

Format Hard copy and on-line data bases.

Availability Users pay a one-time \$200 subscription fee, an annual \$20 maintenance fee,

and are billed monthly for connect charges at \$90 per hour, pro-rated by

the minute. Staff time is billed at \$25 per hour.

Industrial Crisis

Organization Industrial Crisis Institute

Contact Paul Shrivastava, Executive Director

Industrial Crisis Institute, Inc.

649 East 19th Street Brooklyn, NY 11230 Telephone: (718) 859-3435

Description The Industrial Crisis Institute is a non-profit research and educational

organization. The Institute conducts theoretical and empirical studies of industrial crises, and disseminates information on preventing and coping with crises. The Institute publishes <u>Industrial Crisis Quarterly</u>. In addition,

the Institute hosts an international conference on industrial crisis

management and sponsors seminars and workshops.

Format Hard copy, technical assistance, and conferences.

Availability Contact the Institute at the address above for more information.

Landslide Information Center

Organization

Landslide Information Center

Contact

Bob Fleming

Landslide Information Center

US Geological Survey

MS 966 Box 25046

Denver, CO 80225

Telephone: (303) 236-1588

Description

In 1981 the US Geological Survey established the Landslide Information Center. The Center gathers information on landslide research and applications to hazard mitigation, and promotes the adoption of engineering techniques and land use planning. The Center's specific tasks include:

 Providing bibliographic and landslide activities information by using a computerized data management system,

2) Developing and maintaining files of photographs, press releases, reports, and legislation (ordinances, land use regulations) on landslides,

3) Developing and maintaining a mailing list of researchers and others interested in landslide hazard reduction,

4) Answering information requests and contributing to newsletters, and

5) Sponsoring workshops designed to promote the implementation of landslide research findings.

The Center maintains thousands of reports and maps which are accessible through a computerized bibliographic system, as well as a list of over 750 individuals involved in landslide research or the use of landslide data.

Format

Computerized bibliographic system, hard copy reports and documents, landslide photographs, landslide legislation.

Availability

Materials may be examined at the center, and copies of maps and reports may be obtained for the cost of reproduction.

Additional Information

For more information or to contribute information, contact Bob Fleming.

Hazards: International

Organization

United Nations Educational, Scientific and Cultural Organization

Contact

M. Hashizume, Programme Specialist

United Nations Educational, Scientific and Cultural Organization

7 Place de Fontenoy

75700 Paris France

Telephone: [33] (1) 4568 4122

Telex: (33) 43061122

Description

The United Nations Educational, Scientific and Cultural Organization, UNESCO, sponsors a worldwide Natural Hazards Program. Publications

are available.

Format

Contact the headquarters listed above for publication format.

Availability

Contact UNESCO for further information.

Hazards: US

Organization

Hazards Assessment Laboratory

Contact

Dennis Mileti, Co-Director Hazards Assessment Laboratory Colorado State University Ft. Collins, CO 80523 Telephone: (303) 491-7347

Description

The Hazards Assessment Laboratory, HAL, at Colorado State University facilitates the interdisciplinary research of geophysical, climatological, and human-made hazards and emergencies. Hazard mitigation, HAL's primary focus, emphasizes planning and preparedness for emergency response. HAL conducts research programs, and offers short courses in hazards management. Projects include: development of a cross-cultural Disaster Impacts Scale, use of microcomputers in flood hazard mitigation, and

emergency planning for nuclear power plant accidents.

Format

Hard copy and technical assistance.

Availability

Contact HAL for further information.

Hazards: US

Organization

Hazards Reduction and Recovery Center

Contact

Dennis Wenger, Director Hazards Reduction and Recovery Center

College of Architecture

Texas A&M University

College Station, TX 77643-3137 Telephone: (409) 845-7813 Telex: 510-892-7689 Telefax: (409) 845-4491

Description

The Hazards Reduction and Recovery Center has an interdisciplinary focus. The Center investigates the development of cost-effective community mitigation, preparedness, and recovery techniques for reducing the impact of disasters, including loss of life, degradation of health, damage to the built environment, and social and economic disruption. The Center sponsors research, offers a graduate course on hazards risk assessment and management, and operates an extension program for consultations with local governments, state agencies, professional groups, and private companies. Current projects include: the use of microcomputers for testing emergency support capabilities for civil defense, reconstruction following Hurricane Gilbert in Jamaica and Mexico, and structural damage prediction modelling from hurricanes.

Format

Hard copy and technical assistance.

Availability

Contact the Center for course and project information and availability.

Hazards: US

Organization

Natural Hazards Research and Applications Information Center

Contact

David Morton, Librarian

Natural Hazards Research and Applications Information Center

Campus Box 482 University of Colorado Boulder, CO 80309-0482 Telephone: (303) 492-6818 Telefax: (303) 492-6924

Description

Since 1976, the Natural Hazards Research and Applications Information Center, NHRAIC, has served as a national clearinghouse for research dealing with the economic loss, human suffering, and social disruption caused by earthquakes, floods, and other natural disasters. The Center

maintains a large library and annotated data base in order to respond to requests for information. The Center also publishes monographs, working papers, and bibliographies related to natural hazards and mitigation programs. The Center hosts symposia and workshops on natural hazards and publishes the bimonthly newsletter, Natural Hazards Observer.

Format

Hard copy reports and computerized annotated bibliographic data base.

Availability

Information requests are answered at no charge, and visitors are welcome to use the library on an appointment basis. The newsletter is free; other publication cost from \$1.50 to \$15.00. The Center is open 8:30 am to 4:30 pm.

Hazards: US

Organization

Oak Ridge National Laboratory

Contact

John Sorensen, Group Leader Hazard Management Group Oak Ridge National Laboratory PO Box 2008

Oak Ridge, TN 37831-6206

Description

The Hazard Management Group specializes in research and applied work on natural and technological hazards. The group has an interdisciplinary social science focus, but works with a variety of researchers in the physical sciences and engineering. The group has three professional interests:

1) public acceptance of hazardous technology;

2) public and private perception and management of risk and associated implications for hazard mitigation and emergency planning;

3) human response to natural and technological risks and disasters at

both the individual and organizational level.

Format

Hard copy publications by the group and Oak Ridge's civil defense library.

Availability

Contact John Sorensen.

Additional Information

Contact the Hazard Management Group for a list of their recent publications.

Hazards: US Urban & Regional

Organization

Center for Urban and Regional Studies

Contact

Jonathan Howes, Director

Center for Urban and Regional Studies University of North Carolina at Chapel Hill

Campus Box 3410 Hickerson House

Chapel Hill, NC 27599-3410 Telephone: (919) 962-3074

Description

The Center for Urban and Regional Studies covers a full range of activities from fundamental investigations to applications for policy makers in urban

affairs. The Center devotes research efforts to urban growth and development processes, hazards management, and coastal zone

management, and publishes reports on these topics. Recent titles include: Cities Under Water: A Comparative Evaluation of Ten Cities' Efforts to Manage Floodplain Land Use; "Evaluating the Effects of Local Floodplain Management Policies on Property Owner Behavior" in Environmental Management, and "The Anatomy of Losses to State and Local Governments

from Natural Disasters."

Format

Hard copy.

Availability

Send publication orders to the Publications Office, 108 Battle Lane

Hickerson House, Chapel Hill, North Carolina.

Public Affairs

Organization

Office of Public Affairs

Contact

Federal Emergency Management Agency

Office of Public Affairs 500 C Street, SW

Washington, DC 20472 Telephone: (202) 287-0307

Description

The Federal Emergency Management Agency's, FEMA, Public Affairs Computer System, PACS, offers prompt, accurate, and current disaster information. State and local, public information officers may have access. The system was originally designed for communication between regional FEMA public affairs offices. The system uses portable computers linked by modems to transmit information among: personnel in Washington, DC, personnel at various regional headquarters, and personnel at disaster sites.

PACS also links the White House Press Office and numerous federal

agencies and departments to disaster information.

Format On-line. Upon contracting with ITT/Dialcom, the company managing the

PACS data base, state and local public information officers may use PACS to: monitor FEMA press releases, messages, and the other information on the PACS data base; transmit their own messages via electronic mail; and receive news copy from the Associated Press and United Press International

wires.

Availability A potential user need only have a computer terminal with a 300 or 1200

baud modem. The system may be used at almost any location in the country

by dialing a local phone number.

Additional Information

Contact FEMA's Public Affairs Office for additional information on

utilizing PACS.

Technical Information

Organization National Technical Information Services

Contact Director

National Technical Information Services

US Department of Commerce

5285 Port Royal Road Springfield, VA 22161 Telephone: (703) 487-4640 Telefax: (703) 321-8547

Description The National Technical Information Service, NTIS, provides more than

130,000 summaries of completed and on-going US and foreign government-sponsored research, development, and engineering activities annually. NTIS also manages the Federal Computer Products Center and the Center for the Utilization of Federal Technology. A sample of NTIS titles includes: Radioactive Waste Management, Transportation Energy Research, and Acid

Precipitation.

Format Hard copy, computer software and data files, and microfiche copies are

available for sale. A variety of services, including subscriptions,

bibliographies, and summaries are available.

Availability Contact the NTIS office listed above for further information.

Additional Information

National Technical Information Service. Search Guide to the NTIS Bibliographic Database: On DIALOG. US Department of Commerce: Springfield, VA. 1988.

National Technical Information Service. <u>Directory of Federal Laboratory and Technology Resources</u>: 1988-1989. US Department of Commerce: Springfield, VA. 1988.

LIBRARIES

Agricultural Library

Organization

National Agricultural Library

Contact

Joseph Howard, Director National Agricultural Library US Department of Agriculture 10301 Baltimore Blvd.

Beltsville, MD 20705 Telephone: (301) 344-3726

FTS: 344-3755

Description

The National Agricultural Library, NAL, acquires, organizes, and makes available worldwide literature and data dealing with all aspects of agriculture and related subjects. NAL maintains the AGRICOLA data base of bibliographic entries related to agriculture. NAL provides information through specialized information centers, such as the Food and Nutrition Information Center, and general library services including literature searches, bibliographies, reference services, loan of publications, interlibrary

loan, and photocopy of articles.

Format

Hard copy and microform are available.

Availability

NAL's AGRICOLA data base may be acquired as a service on magnetic tape. AGRICOLA is also available on-line through DIALOG Information Services and BRS Information Technologies.

Disaster Exercises Library

Organization

Federal Emergency Management Agency

Contact

Hal Gaut

Federal Emergency Management Agency State and Local Programs and Support

Washington, DC 20472 Telephone: (202) 287-0170

Description

The Federal Emergency Management Agency, FEMA, maintains a library of disaster exercises for use by state and local governments. Disaster exercises include those on natural hazards--floods, hurricanes, volcanic eruptions, drought, and wildfire, technological hazards, and nuclear preparedness. Upon receiving a request from a local agency for a particular type of exercise, the library will send synopses of those exercises which

seem to fit the agency's needs. The agency can then select what it wants

and adapt it to its specific site.

Format

Hard copy.

Availability

There is no charge for the materials.

Additional Information

Those wishing to contribute to the collection should send a copy of their

materials to a FEMA regional office, which will forward the exercise to

headquarters.

Disaster Research Library

Organization

Joint Assistance Center

Contact

Narendra Kumar Jain Joint Assistance Center H-65 South Extension-1 New Delhi 110 048

India

Telephone: [91] (11) 697 986 & 616 940

Description

The Joint Assistance Center, JAC, maintains a small library with about 3000 holdings on disaster related subjects. It has materials on training and education for disaster preparedness, directories of voluntary agencies and their disaster efforts, materials on the environment, and information on almost all types of disasters. The center also monitors several leading Indian newspapers on disasters, and has relationships with several resource agencies in the environmental field. The Joint Assistance Center produces <u>Disaster Management</u>, the first journal devoted to disaster

prevention in Asia.

Format

Hard copy and audio-visuals.

Availability

Contact the JAC for a publication and price list.

Disaster Response Library

Organization

Australian Overseas Disaster Response Organization

Contact

Lynne Johnson, Information Officer

Australian Overseas Disaster Response Organization

PO Box K425

Haymarket NSW 2000

Australia

Telephone: [61] (2) 264-9544 Telefax: [61] (2) 264-9558

Description

While the Australian Overseas Disaster Response Organization serves as an overseas disaster response organization, AODRO, it provides both practical and theoretical information on hazards through their library. AODRO's computerized bibliographic system allows for easy retrieval of data and reports in their rapidly expanding collection. AODRO's Information Service can furnish current disaster news, reference services, training materials, and research assistance. They also publish a bi-monthly

newsletter.

Format

Hard and computerized copy.

Availability

Contact Lynne Johnson.

Earthquake Library

Organization

National Information Service for Earthquake Engineering

Contact

Ken Wong, Development Engineer

National Information Service for Earthquake Engineering

Computer Applications 404A Davis Hall University of California Berkeley, CA 94720 Telephone: (415) 642-5113

Description

The National Information Service for Earthquake Engineering's, NISEE, Computer Applications Project is a public service project administered by the Earthquake Engineering Research Center of the University of California, Berkeley. Computer software, developed as a result of National Science Foundation funded research, are distributed by NISEE to a worldwide audience including professionals, academic researchers, governmental agencies and the general public. Activities include dissemination of information about available computer programs, distribution of the programs and educational seminars on their use.

Format

A variety of magnetic media is available, including magnetic tapes, diskettes,

and electronic mail.

Availability

For more information, including a catalog of available software, contact Ken

Wong.

Economic and Social Development Library

Organization

United Nations Economic & Social Commission for Western Asia

Contact

Mohammed Wahab, Economic Affairs Officer **Environment Coordination Unit**

Natural Resources, Science & Technology Division

United Nations Economic & Social Commission for Western Asia

Hay Al-Jihad Quarter 893/27/50

PO Box 27 Baghdad Iraq

Telephone: [964] (1) 5564282, ext. 582

Telex: 213303 UNECWA IK Telefax: [964] (1) 213468A/213468B

Description

The United Nations Economic and Social Commission for Western Asia maintains an economic and social development library with holdings in English, Arabic, and French. The collection includes reference books, monographs, journals, special reports, and United Nations publications. A portion of the collection dates back to the late 1950s and early 1960s.

Format

Hard copy and microfiche. The Library expects to have a computerized, bibliographic data base by 1990.

Availability

Contact the Library for information.

Additional Information

Contact the Library for an acquisitions list.

Geological Survey Computer Library

Organization

Online Computer Library Center

Contact

Online Computer Library Center

Electronic Publishing and Information Delivery Division

6565 Frantz Road

Dublin, OH 43017-0702

Telephone: (800) 848-5878 ext. 4388

in Ohio (800) 848-8286 ext. 4388

in Canada (800) 533-8201 in Europe (021) 236-3224

Description

The Online Computer Library Center is a nonprofit membership organization engaged in computer library service and research. It makes available computer-based services, bibliographic data, and other information for libraries, other educational organizations, and individual library users. The newly added data bases are:

- 1) The US Geological Survey's library catalog, which provides bibliographic references to materials in the USGS library;
- GeoIndex which provides information on more than 15,000 geologic maps of the United States and its territories. These maps are produced by the USGS, other federal agencies, state surveys, professional societies, academic institutions, and commercial organizations;
- 3) The Earth Science Data Directory which is a catalog of approximately 1,900 listings of earth science and natural resources data bases. These data bases are products of governmental agencies, academic institutions, and the private sector.

Format

Compact disc.

Availability

Contact the Online Computer Library Center for prices and membership.

Government Printing Office

Organization

Government Printing Office

Contact

Superintendent of Documents
US Government Printing Office •
Washington, DC 20402

Telephone: (202) 783-3238

FTS: 783-3238

Description

The US Government Printing Office produces more than 270 subject bibliographies on subjects or fields of interest. Bibliographies related to natural hazards are:

Accidents, SB 229 Agriculture, SB 162

Agriculture Yearbooks, SB 31 Census of Agriculture, SB 277 Farms and Farming SB 161 Architecture, SB 215, 157 Census of Population, SB 181 Block Statistics, SB 311

Census of Housing, SB 181, SB 311, SB 312 Disaster Preparedness and Civil Defense, SB 241

Conservation, SB 238 Earth Sciences, SB 160 Weather, SB 234

Environmental Education and Protection, SB 88

Fire Prevention and Management, SB 76

Maps, SB 102, 183

Vital and Health Statistics, SB 121

Format

Hard copy.

Availability

Contact the Superintendent of Documents for further publication and bibliographical information.

Library of Congress

Organization

Library of Congress

Contact

Nancy Bush, Information Officer

US Library of Congress Washington, DC 20540 Telephone: (202) 707-2905

Description

The Library of Congress, with holdings of over 88 million items, offers reference, bibliographic, and referral services. Although there is no organized natural hazards data resource, information may be obtained from:

General Collections: limited reference services in response to written requests (General Reading Rooms Division);

Science and Technology Division: computerized catalogs, abstracts and indexing services, bibliographic guides to selected scientific and technical topics;

LIBRARIES

National Referral Center: refers inquiries to appropriate organizations, institutions, research projects or laboratories;

Library of Congress Computerized Catalog: over 10 million books cataloged since 1969. Searches available; standard fee is \$20.00 plus eight cents per record retrieved. (Cataloging Distribution Service, Customer Services Section);

Interlibrary Loan: to supplement resources of other libraries. (Libraries should send requests on standard forms to Loan Division);

Photoduplication Service: for unrestricted documents not under copyright;

Congressional Research Service: available to members and committees of Congress only. Prepares issue briefs on topics of current interest to Congress (e.g., earthquake prediction, emergency preparedness).

Format

Hard and computerized copies.

Availability

If there are any charges, these are available from the divisions listed.

1000

Additional Information

For specific inquiries write: (division or section name) Library of Congress Washington, DC 20540

Medical Library

Organization

National Library of Medicine

Contact

Bruno Vasta, TOXNET Administrator National Library of Medicine

Division of Specialized Information Services

8600 Rockville Pike Bethesda, MD 20894 Telephone: (301) 496-6531

Description

The National Library of Medicine publishes TOXNET. This computerized system of data banks and files is oriented toward the toxicology and chemical properties of hazardous substances. Among its component files are: (1) Hazardous Substances Data Bank, a scientifically reviewed and edited data bank containing chemical and toxicological information, environmental fate/exposure, emergency handling procedures, and regulations on approximately 4200 chemicals; (2) Registry of Toxic Effects of Chemical Substances, toxicity data on approximately 91,000 chemicals; (3) Chemical Carcinogenesis Research Information System, data on short and long-term bioassays, mutagenicity and tumor promotion studies; (5) the

Environmental Teratology Information Center file, citations from pre-1950 through 1987 on teratology and developmental toxicology. Other data bases in areas such as environmental releases of toxic chemicals, risk assessment, and genetic toxicology are in development.

Format

The above mentioned data bases are available through the TOXNET system, an on-line data base.

Availability

To obtain further information regarding access and costs, please contact

Bruno Vasta.

Natural Disasters Library

Organization

INTERTECT

Contact

Jean Parker, Projects Coordinator

INTERTECT PO Box 565502 Dallas, TX 75356

Telephone: (214) 521-8921

Description

INTERTECT maintains a library which is open to the public. This library contains books, manuals, field reports, periodicals, slides, and videotapes related to natural disasters and refugee emergencies. INTERTECT also has publications for sale.

Format

Published and unpublished hard copies in the library, videos (either VHS or

3/4" Umatic), 35mm slides.

Availability

The Library is open to all users. Photocopies of hard copy resources are \$.20 per page. Charges for specific searches are made on a case-by-case

basis.

Additional Information

Contact INTERTECT for a list of publications and their library

classification index.

LIBRARIES

Photographic Library

Organization

Geological Survey

Contact

Librarian

Photographic Library US Geological Survey

MS 914, Box 25046, Federal Center

Denver, CO 80225-0046 Telephone: (303) 236-1010

FTS: 776-1010

Description

The US Geological Survey's Photographic Library contains approximately 300,000 photographs from the US and a few foreign countries. Photographs are cataloged by subject and geographic area, along with captions. The Photographic Library includes photos of: geologic, geomorphologic, and topographic features; natural events; people at work in USGS laboratories, offices, and in the field; historic photos, especially of the Western US, including photos from the pre-1879 Hayden, Powell, Wheeler and King expeditions; and other topics. Material in the Photographic Library dates

from the 1860s to the present.

Format

There are about 30,000 color transparencies, and the remainder of the collection is mostly black and white. There is no published catalog. There are manual card catalogs in the library.

Availability

Reproductions are available at cost. A small collection of photos for media use is available through:
Visual Information Services

Visual Information Services US Geological Survey 790 National Center Reston, VA 22092 Telephone: (703) 648-4357

FTS: 959-4357

Additional Information

The US Geological Survey's Photographic Library. U. S. Geological Survey.

Reston, VA. 1987. Brochure.

Sea Grant Library

Organization

Pell Library

Contact

Betty Edel, Manager

National Sea Grant Depository Pell Library-Bay Campus University of Rhode Island Narragansett, RI 02882

Description

The National Sea Grant Depository, NSGD, is an information and documentation center established by the Office of Sea Grant in 1971 at the University of Rhode Island's Pell Marine Science Library. NSGD aims to ensure that all publications generated by the National Sea Grant Program are available in a single location for loan and archival purposes. NSGD is the only collection of its kind which extends borrowing privileges throughout the world.

The collection consists primarily of reprints, technical reports, marine advisory reports, and summaries from conference proceedings. These publications touch on a wide variety of subjects including such areas as: coastal management, aquaculture, fisheries, pollution, ecosystem research,

law and socio-economics, and ocean engineering.

Format

Hard copy materials are computer catalogued. The monthly acquisition list provides up-to-date bibliographic information on new acquisitions.

Availability

Materials are available through inter-library loan. The collection may also be used on-site. Packaged literature searches are also conducted on

selected topics.

Additional Information

Contact NSGD for a copy of the yearly Sea Grant Publications Index or the

monthly Sea Grant Acquisitions List.

Technology, Environment and Development Library

Organization

Center for Technology, Environment and Development

Contact

Jeanne Kasperson, Research Librarian

Center for Technology, Environment and Development

Clark University

Worchester, MA 01610 Telephone: (508) 751-4623

LIBRARIES

Description The Center for Technology, Environment and Development, CENTED,

Library houses a noncirculating research collection, a substantial portion of which deals with risks and hazards. The collection consists of approximately

6000 plus books, 375 journals, data boxes, and computer files.

Format The Library's catalog is on-line in the OCLC international bibliographic

data base. The collection is hard copy; there are specialized computer files

as well.

Availability The library is open M-F from 9am-5pm. While the library is open to the

public, the library staff gives priority to CENTED researchers.

Additional Information

Contact the CENTED Library for a list of publications and brochure.

World Hunger Research Library

Organization Alan Shawn Feinstein World Hunger Program

Contact Jeanne Kasperson, Senior Research Associate

Box 1831

Brown University Providence, RI 02912 Telephone: (401) 863-2797 Telefax: (401) 863-3700

Description The World Hunger Research Library maintains a multidisciplinary research

collection in all aspects of world hunger, from prehistoric times into the

future.

Format The library catalog is on-line in the OCLC, international bibliographic

database of library holdings. The collection itself is hard copy.

Availability Reading room hours are from 9am-5pm, M-F.

Additional

Information Contact the World Hunger Research Library for a list of publications,

prospectus, and The Hunger Report: Update.

Maps & Photographs

Organization

National Cartographic Information Center

Contact

National Cartographic Information Center US Geological Survey

509 National Center Reston, VA 22092

Description

Aerial Photographs:

The National Cartographic Information Center, NCIC, produces the Aerial Photography Summary Record System. The System describes existing aerial photography projects from various federal, state, and commercial sources. The System provides geographic location, date of acquisition, scale, and information about the film and camera, and identifies the holding organization for approximately 500,000 aerial photography projects.

Format

Fifty-three microfiche sets are available for the 50 states, District of Columbia, Pacific Islands, Puerto Rico, and Virgin Islands. Each entry provides a summary record for an aerial photography project that is located by longitude and latitude, and sorted by date. Microfiches and searches are available at cost. The NCIC will assist in locating and ordering aerial photographs.

Availability

Contact the Center at the address listed above, or call the state NCIC

office.

Additional Information

For additional information contact NCIC's data base manager at:

Telephone: (703) 648-5903

FTS: 959-5903

Description

Digital Elevation Models:

The National Cartographic Information Center publishes the <u>Catalog of Cartographic Data</u>. The NCIC also publishes digital representations of terrain elevations produced by the Defense Mapping Agency Topographic Center. The Center plans to make other digital map files available as they

are added to the collection.

Format

Computerized maps. Tapes are available for the cost of duplication.

Availability

Write for NCIC's cartographic data catalog.

Additional Information

For additional information contact NCIC at:

Telephone: (703) 860-6045

FTS: 959-6045

Description

Mapping:

The National Mapping Division provides information about the US Geological Survey's published topographic maps, topographic maps of other agencies, and nautical charts. These maps and charts cover the US from 1884 to the present.

The National Cartographic Information Center maintains third-order horizontal and vertical geodetic control information established by the US Geological Survey. Vertical control lists are available with descriptions, locations, and elevations of bench marks. Horizontal lists contain descriptions, geodetic and/or geographic positions of transit traverses, triangulations, and electronic traverse stations. These lists cover the US from 1900 to the present.

Format

Hard copy, microfiche, microfilm, and computer printouts.

The NCIC provides diagrams showing the location and order of geodetic control; these are available for \$.50 for each 15 foot block. The National Geodetic Survey is developing a computerized data base of this information.

Availability

Contact NCIC for the Catalog of Cartographic Data.

Additional Information

For additional information contact NCIC at:

Telephone: (703) 860-6045

FTS: 959-6045

Nautical and Aeronautical Charts

Organization

National Oceanic and Atmospheric Administration

Contact

Donald Florwick National Oceanic and Atmospheric Administration

Charting and Geodetic Services 6001 Executive Boulevard Rockville, MD 20852

Telephone: (301) 443-8741

FTS: 443-8741

Description National Oceanic and Atmospheric Administration's, NOAA, National

> Ocean Service produces nautical and aeronautical charts. Nautical charts illustrate the nature and form of the coast, water depths, character of the ocean bottom, aids to navigation such as channel landmarks, navigation hazards, magnetic variations, port and harbor facilities, and cultural details. Nautical charts vary in scale. Aeronautical charts depict communications facilities, navigational charts, airport landing patterns, safe operating

procedures, and air traffic rules.

Format Hard copy.

Availability Nautical and aeronautical charts are available free of charge from:

Distribution Branch, N/CG33

National Ocean Survey

National Oceanic and Atmospheric Administration

Riverdale, MD 20737-1199

Remote Sensing

Organization **Technology Application Center**

Contact Michael Inglis, Associate Director

Technology Application Center University of New Mexico Albuquerque, NM 87131 Telephone: (505) 277-3622

Telefax: (505) 277-3614

Description The Technology Application Center, TAC, provides digital remote sensing

and geographic information system design and development services for natural resources projects and programs. TAC annually holds a four-week,

digital-image processing workshop. TAC also engages in several

ecological research programs, and provides a photo search service. TAC

produces a quarterly review of remote sensing literature.

Format Hard copy and technical assistance.

Availability Contact the Center for further information.

Remote Sensing

Organization

Wave Propagation Laboratory

Contact

Robert Frost

Wave Propagation Laboratory

National Oceanic and Atmospheric Administration

US Department of Commerce

325 Broadway Boulder, CO 80303 Telephone: (303) 497-6244 Telefax: (303) 497-6750

Description

The Wave Propagation Laboratory, WPL, aims to improve the nation's geophysical research and services through creating and assessing new remote measurement systems. WPL remotely senses lower tropospheric air flows relevant to urban pollution and hazardous emission dispersal. In addition, WPL investigates wave propagation and technical developments,

atmospheric and oceanic research, and technology transfer.

Format

Contact WPL for more information.

Availability

Contact WPL for information on current researchers and their research

interests.

Satellite Imagery

Organization

National Geophysical Data Center

Contact

National Geophysical Data Center

National Oceanic and Atmospheric Administration

Code E/GC1 325 Broadway Boulder, CO 80303 Telephone: (303) 497-6729

Description

The National Geophysical Data Center, NGDC, maintains several satellite data sets applicable to Earth studies. The data sets facilitate regional and global levels of analysis. Currently NGDC makes available: GEOSAT,

MAGSAT, GEOS-III, and SEASAT.

Format

Write or call NGDC for information and prices on data tapes.

Availability

Contact the NGDC for further information.

Satellite Imagery

Organization

National Oceanic and Atmospheric Administration

Contact

Frances Holt, Chief Physical Science Branch

National Oceanic and Atmospheric Administration

National Environmental Satellite Data and Information Service

World Weather Building, Room 601 E/RA 21

Washington, DC 20233 Telephone: (301) 763-8251

FTS: 763-8251

Description

The National Environmental Satellite Data and Information Service maintains a ten year collection of meteorological data and maps, including a browse file of satellite imagery. The Service also offers training films and technical assistance.

Format

Hard copy, computer copy, microfilm, and technical assistance.

Availability

Call to schedule an appointment.

Satellite Imagery

Organization

National Space Science Data Center

Contact

National Aeronautics and Space Administration

National Space Science Data Center

Code 630.2

Goddard Space Flight Center Greenbelt, MD 20771 Telephone: (301) 286-6695

FTS: 888-6695

Description

The National Space Science Data Center, NSSDC, provides satellite images from Nimbus, geostationary orbital environmental satellites (GOES), synchronous meteorological satellites, SMS, and the heat capacity mapping mission. Data cover the entire world from 1964 to the present.

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Format

Hard copy, computer tapes, microfilm, microfiche, prints, and positive and

negative transparencies.

Availability

Nimbus, GOES, and SMS User's Guides are available from NSSDC.

See also the following appendices:

- Geological SurveyNational Weather Service

Avalanche

Organization

American Association of Avalanche Professionals

Contact

Editor

American Association of Avalanche Professionals

PO Box 510904

Salt Lake City, UT 84151

Description

The American Association of Avalanche Professionals, AAAP, deals with all

issues relating to avalanches, and produces The Avalanche Review.

Format

Hard copy.

Availability

Write for a subscription or membership information. The AAAP publishes

The Avalanche Review monthly from October through March; a yearly

subscription is \$18.00.

Dam Safety

Organization

Association of State Dam Safety Officials

Contact

Lori Spragens, Executive Director

Association of State Dam Safety Officials

PO Box 55270

Lexington, KY 40555 Telephone: (606) 257-5140

Description

The Association of State Dam Safety Officials, ASDSO, compiles a

publication, Bibliography on Dam Safety. The group also makes available

its mailing list of dam safety officials.

Format

Hard copy and diskette.

Availability

Write to ASDSO for membership and publication information.

Disaster Experts

Organization

Association of International Disaster Experts

Contact

Claire Rubin

Association of International Disaster Experts

PO Box 2208

Arlington, VA 22202 Telephone: (202) 676-7386

Description

This professional association of emergency and disaster management specialists adheres to the following objectives:

 To create an association of persons throughout the world who are engaged in projects in the fields of emergency management and disasters;

2) To enable members to meet other persons engaged in related work in order to share experience and develop collaborative efforts;

3) To provide a directory of members that includes details about expertise and experience; and

4) To meet annually to discuss consulting opportunities and other aspects of work in these fields that are of general interest.

Format

Professional association.

Availability

Membership is open to professionals--teachers, researchers, administrators, managers, and consultants--working in the areas of emergency management and disaster response for natural and technological disasters, as well as hostage taking, and terrorism.

Additional Information

For further information or a membership application contact Claire Rubin.

Earth Sciences

Organization

The Royal Society of Edinburgh

Contact

Janet Crichton, Assistant to the Publications Secretary

The Royal Society of Edinburgh

22/24 George Street Edinburgh EH2 2PQ

Scotland

United Kingdom

Telephone: [44] (31) 225-6057

Description

Publications of the Royal Society of Edinburgh cover all aspects of earth and related planetary sciences. Contributions emphasize principles and

worldwide topics.

Format

Hard copy.

Availability

Contact the Royal Society of Edinburgh's headquarters for publication and

price information.

Earthquake

Organization

Earthquake Engineering Research Institute

Contact

Susan Tubbesing, Executive Director Earthquake Engineering Research Institute

6431 Fairmount Avenue, Suite 7

El Cerrito, CA 94611 Telephone: (415) 525-3668 Telefax: (415) 524-9577 Email is also available.

Description

The Earthquake Engineering Research Institute is a national, not-for-profit, technical society of engineers, geoscientists, architects, planners, public officials, and social scientists. The Institute offers both membership and technical assistance, including technical monographs, a newsletter, a journal,

and a conference.

Format

Hard copy, slides, and technical assistance.

Availability

Contact Susan Tubbesing for membership and publication information.

Earthquake

Organization

Seismological Society of America

Contact

Susan Newman, Director

Seismological Society of America 201 Plaza Professional Building

El Cerrito, CA 94530 Telephone: (415) 525-5474

Description

The Seismological Society of America, SSA, publishes a bi-monthly journal, The Bulletin of the Seismological Society of America, of advanced research in seismology and related fields. The bulletin is available by membership or

subscription.

Format

Hard copy. Back issues are available in microform.

Availability

Contact the SSA for membership and subscription information.

Emergency Management

Organization

National Coordinating Council on Emergency Management

Contact

Elizabeth Buzzerd, Executive Manager

National Coordinating Council on Emergency Management

7297 Lee Highway, Unit N Falls Church, VA 22042 Telephone: (703) 533-7672 Telex: (703) 241-5603

Description

The National Coordinating Council on Emergency Management, NCCEM, is the only national organization of local emergency managers and civil defense coordinators. Membership is open to any person or organization. Members receive networking opportunities with the other 1,200 members at both an annual and mid-year conference, and at an annual exhibition. Members also receive a monthly newsletter, the NCCEM Bulletin.

Format

Hard copy.

Availability

Membership is \$50 per year for an individual and \$150 per year for an

organization.

Fire

Organization

National Fire Protection Association

Contact

Martin Henry, Director

Public Fire Protection Division National Fire Protection Association

Batterymarch Park Quincy, MA 02269 Telephone: (617) 770-3000

Telex: (617) 770-0700

Description

The National Fire Protection Association, NFPA, founded in 1896, addresses virtually every aspect of fire protection. NFPA's mission is to safeguard humans and their environment from fire. Membership totals more than 40,000 fire protection and prevention professionals. NFPA maintains fire data, performs data analysis, develops codes for fire

investigations, and provides educational materials.

Format

Hard copy, videos, 16mm movies, and slide-tape sets.

Availability

Call or write NFPA.

Additional

Information

<u>Directory of Member Services</u>. NFPA. Quincy, MA 02269. The NFPA Catalog. 1988. NFPA. Quincy, MA 02269.

Flood

Organization

Association of State Floodplain Managers

Contact

Larry Larson, Executive Director

Association of State Floodplain Managers, Inc.

PO Box 2051

Madison, WI 53701-2051 Telephone: (608) 266-1926 Telefax: (608) 267-3579

Description

The Association of State Floodplain Managers, ASFM, maintains a national resource center on floodplain management. ASFM's computerized indexing

system provides quick references for any caller.

Format Hard and computer copy.

Availability Write or call AFSPM for user information.

Flood

Organization National Association of Flood and Stormwater Management Agencies

Contact Diane VanDeHei, Assistant Executive Director

National Association of Flood and Stormwater Management Agencies

1225 Eye Street, NW Washington, DC 20005

Telephone: (202) 682-3761 Ext. 204

Description The National Association of Flood and Stormwater Management Agencies,

NAFSMA, informs Congress and Federal policy makers on a broad range of water resources management issues. These issues include: stormwater management, flood prevention, damage mitigation, disaster assistance, flood insurance, and flood control project authorizations. NAFSMA publishes a review of <u>The Federal Register</u>, as well as a monthly newsletter. The organization also hosts an annual meeting and various committees.

Format Hard copy and technical assistance.

Availability Contact NAFSMA for further information.

Geography

Organization American Geographical Society

Contact Mary Lynne Bird, Director

American Geographical Society

156 Fifth Avenue

New York, NY 10010-7002 Telephone: (212) 242-0214

Description The American Geographical Society has produced a scholarly journal,

Geographical Review, for 71 years. An index of hazards articles in the

Review is also available.

Format

Hard copy.

Availability

Geographical Review is available in any academic library and in many public libraries.

Geography

Organization

Association of American Geographers

Contact

Roger Kasperson, Treasurer Hazards Specialty Group CENTED Clark University Worcester, MA 01610

Telephone: (508) 793-7665

Description

In 1987 a group of interested geographers formed the Hazards Specialty Group, HSG, of the Association of American Geographers, AAG. The organization's three-fold mission is to:

- 1) Promote research, education, and the application of knowledge about natural, technological, and social hazards;
- 2) Strengthen communication and collaborative activities among geographers who share an interests in hazards; and
- 3) Encourage collaboration between geographers and members of other disciplines and professions that share an interest in hazards.

The organization is open to all interested AAG members, although other persons who are members of related professional organizations may become HSG affiliates. The organization publishes a newsletter, Hazards, that reports on: research in progress, activities of national and international hazards organizations, the findings and publications of university and government research centers, and publications and theses titles of members and affiliates. The group presents sessions on hazards issues at the national AAG level.

Format

Professional society.

Availability

The group actively seeks additional members. Membership and subscription to Hazards may be obtained by sending a check for \$5 payable to CENTED/HSG, attention-Roger Kasperson.

Additional Information

The group seeks timely information to be included in the newsletter.

Geology

Organization

International Association of Engineering Geology

Contact

L. Primel, Secretary General

International Association of Engineering Geology

58 Boulevard Lefebvre 75732 Paris Cedex 15

France

Telephone: [33] (1) 40-43-56-43 Telex: (33) LCPARI 200361 F. Telefax: [33] (1) 40-43-54-98

Description

The International Association of Engineering Geology is an international organization devoted to hazards. The Association publishes papers in the

semi-annual Bulletin of the IAEG.

Format

Hard copy.

Availability

The secretary general will forward the bulletin number requested.

Geology

Organization

Sociedad Geologica Mexicana

Contact

Ing. Bernardo Martell Andrade, President

Sociedad Geologica Mexicana

Torres Bodet 176, Sta. Ma. La Rivera C.P. 06400

Mexico City Mexico

Telephone: [52] (5) 47-26-66

Description

Sociedad Geologica Mexicana (Mexican Geologic Association) publishes

The Mexican Geologic Society Bulletin twice a year. The bulletin contains

information about the geologic characteristics of Mexico.

Format

Hard copy.

Availability

It costs \$15 per year for a subscription to the Bulletin.

Geology

Organization

Societe Belge de Geologie

Contact

M. Dusar, Secretary-General

Jenner Str. 13 B 1040 Brussels

Belgium

Telephone: [32] (2) 6476400 Telefax: [32] (2) 6477359

Description

The Belgian Geological Society produces a scientific bulletin and an informational publication on natural hazards. The <u>Bulletin</u> contains scientific articles on Belgian geological phenomena, as well as studies by Belgians and associated earth scientists. <u>Miscellanea</u> provides information on upcoming events, gives information on student research topics, and

relates events and hazards mentioned in the press.

Format

Hard copy. The Bulletin, a scientific periodical, is distributed quarterly, and

Miscellanea, an information newsletter, is distributed monthly.

Availability

Subscription to the <u>Bulletin</u> is 1200 Belgian Francs per year. Subscription to <u>Miscellanea</u> is 500 Belgian Francs per year.

Geophysics

Organization

American Geophysical Union

Contact

Director

American Geophysical Union 2000 Florida Avenue NW Washington, DC 20009 Telephone: (202) 462-6900

Description

The American Geophysical Union, AGU, has been expanding the frontiers of the geophysical sciences for almost 70 years. The AGU publishes a weekly geophysics newsletter and a monthly magazine, <u>Physics Today</u>. In addition, the AGU publishes numerous journals dealing with atmospheric, oceanic, hydrologic, and space sciences.

Format

Hard copy and microfiche.

Availability

Contact the AGU office for membership information and a publication

price list.

Geotechnology

Organization

Canadian Geotechnical Society

Contact

A. Stermag, Director General Canadian Geotechnical Society 170 Atwell Drive, Suite 602 Rexdale, Ontario M9W 5Z5

Canada

Description

The Canadian Geotechnical Society, CGS, is a federally incorporated non-profit organization which facilitates information exchange and technology transfer within four divisions: soil mechanics and foundations, engineering geology, rock mechanics, and cold regions technology. The CGS produces a newsletter, <u>Geotechnical News</u>, as well as technical publications. CSG has hosted the Annual Geotechnical Society Conference since 1947, and also offers a lecture tour, workshops and seminars, national and international liaisons, and assistance to developing countries.

Hard copy and technical assistance.

Availability

Format

Contact CGS for membership information.

Hydrology

Organization

American Institute of Hydrology

Contact

Helen Klose, Executive Manager American Institute of Hydrology 3416 University Avenue SE, Suite 200

Minneapolis, MN 55414 Telephone: (612) 379-1030

Description

The American Institute of Hydrology publishes the quarterly journal, Hydrological Science and Technology Journal. The journal communicates new techniques, methods, and summaries of hydrological projects or investigations, including water pollution and hazardous waste issues.

Format

Hard copy.

Availability

Subscription to the Journal is available to members for \$24 annually and \$48 for non-members.

Insurance

Organization

National Association of Independent Insurers

Contact

C. Robert Hall, Vice President

National Association of Independent Insurers

2600 River Road
Des Plaines, IL 60018
Telephone: (312) 297-7800

Description

The National Association of Independent Insurers, NAII, is a trade association which represents over 550 insurance companies. These companies write over 25 percent of property insurance nationally, and represent all aspects of the insurance industry including: legal, actuarial,

risk selection, and losses.

Format

Hard copy papers and bulletins relating to property and liability insurance.

Availability

Contact C. Robert Hall.

Insurance

Organization

National Committee on Property Insurance

Contact

Director of Information Services

National Committee on Property Insurance

Ten Winthrop Square Boston, MA 02110 Telephone: (617) 423-4620 Telex: (617) 423-7633

Description

The National Committee on Property Insurance, NCPI, is the All Industry Insurance Forum for the review and discussion of matters relating to residual and distress property insurance markets. NCPI is also the repository for all Residual Property Insurance Plans, as well as their data and results. In addition, NCPI is the host organization for the Earthquake Project.

Format

Hard copy.

Availability

Contact NCPI.

Additional

Information

NCPI provides a list of publications which includes topics from beach and

wind plans to guidelines for state property insurance plans.

Medical Services

Organization

The National Association of State Emergency Medical Services Directors

Contact

Larry Jordan, President

The National Association of State Emergency Medical Services

Iron Works Pike PO Box 11910

Lexington, KY 40578-1910 Telephone: (606) 231-1903

Description

The National Association of State Emergency Medical Services Directors, NASEMSD, formed in 1980 to enhance the effectiveness of emergency medical services, EMS, across all states. NASEMSD is a vehicle for state

EMS directors to exchange information.

Format

Hard copy reports.

Availability

Contact the NASEMSD.

Additional Information

National EMS Clearinghouse. The EMS Office: Its Structure and Functions. The Council of State Governments: Lexington, KY. 1988.

Other available titles include: State Emergency Medical Services
Transportation Systems and Available Facilities, State Emergency Medical
Services Public Information and Education Systems, State Emergency
Medical Services Communications Systems and Disaster Preparedness, and
Training and Certification of EMS Personnel. All these publications are
available from the Council of State Governments, PO Box 11910, Iron
Works Pike, Lexington, KY 40578, (606) 252-2291.

Meteorology

Organization

American Meteorological Society

Contact

Richard Hallgren, Executive Director American Meteorological Society

45 Beacon Street Boston, MA 02108

Telephone: (617) 227-2425 Telefax: (617) 742-8718

Description

The American Meteorological Society, AMS, represents professional

meteorologists nationwide.

Format

Contact the AMS for format information.

Availability

Call or write the AMS headquarters listed above.

Additional Information

List of publications.

Natural Hazards

Organization

Natural Hazards Society

Contact

M. El-Sabh

International Society for the Prevention and Mitigation of Natural Hazards

310 Allee des Ursulines Rimouski, Quebec Canada G5L 3A1

Description

The International Society for the Prevention and Mitigation of Natural Hazards-The Natural Hazards Society, NHS, founded in 1988, is a professional society espousing the following goals:

1) Promotion of research in all aspects of natural hazards;

 Distribution of preparedness and emergency response plans for all countries; and

 Formulation and implementation of educational programs concerning hazard prevention and mitigation.

The society will hold at least one international scientific meeting every two years in different parts of the world, with special symposia on topical natural disaster events or natural hazard studies. In addition, the NHS will co-sponsor appropriate scientific meetings, summer school programs, or workshops organized by other bodies. Natural Hazards: An International Journal of Hazards Research and Prevention, published by Kluwer Academic Publishers of the Netherlands, is now the official scientific publication of the society.

Format

Hard copy journal, scientific meetings.

Availability

Membership in the NHS is open to all international scientists and policy makers actively engaged in natural hazard studies or the prevention and mitigation of natural disasters. For 1989, an individual membership costs \$20 (\$5 for students). Members are eligible to receive Natural Hazards at a reduced rate, and can attend the biannual meetings for a reduced fee.

Additional Information

Sections of the NHS may be organized as provided in the bylaws. Sections consist of members of the Society and other concerned persons who reside

near one another or share a common interest or problem. For further information about the Society or a membership application, write M. El-Sabh.

Planning

Organization

American Planning Association

Contact

Director

American Planning Association

1313 East 60th Street Chicago, IL 60637

Telephone: (312) 955-9100

Description

The American Planning Association, APA, is a national organization of planners and citizens who work for better-planned communities. Through publications, research, and conferences, APA informs members on ways to improve national planning policies. The American Institute of Certified Planners is a part of APA that concentrates on standards and continuing education for the planning profession. APA provides research reports, monthly newsletters, the answer service for ordinance searches, advice, and loan services, as well as a variety of publications including Zoning News, APA Journal, and Planning. In particular, the APA maintains a disaster planning file.

Format

Hard copy and technical assistance.

Availability

Membership for the APA is salary-based; contact the APA for further

information.

Planning Systems

Organization

Urban and Regional Information Systems Association

Contact

Bob Alexander US Geological Survey Denver Federal Center Box 25046, MS-516 Denver, CO 80225

Telephone: (303) 236-5838

Description

The Urban and Regional Information Systems Association, URISA, is the oldest and largest professional organization for individuals concerned with

the effective use of information systems technology at the state, regional, and local levels. URISA advances interdisciplinary professional approaches to the planning, design, operation, and use of information systems for public management. URISA strives for mutual understanding among managers, technicians, and users of information technology so that integrated systems may be developed which provide information vertically to top management and horizontally among professional disciplines.

URISA organized a public safety special-interest group which relates urban and regional information technology to the fields of emergency management, natural and technological hazards, and public safety.

Format

Professional organization.

Availability

To become involved in URISA and the new special interest group on hazards and emergency management, contact Bob Alexander.

Public Works

Organization

American Public Works Association

Contact

Ronald Sears, Director of Education American Public Works Association Council on Emergency Management

1313 East Sixteenth Street

Chicago, IL 60637 Telephone: (312) 667-2200

Description

The American Public Works Association, APWA, with nearly 27,000 members nationwide, conducts educational workshops, inservice programs, and technical session seminars on public works. APWA produces a quarterly newsletter, as well as a series of manuals directed at public works personnel. The APWA has a Council on Emergency Management.

Format

Hard copy and technical assistance.

Availability

Contact Ronald Sears.

Soil and Water Conservation

Organization

Soil and Water Conservation Society

Contact

Tim Kautza, Program Assistant Soil and Water Conservation Society

7515 NE Ankeny Road Ankeny, IA 50021-9764 Telephone: (515) 289-2331

Description

The Soil and Water Conservation Society, SWCS, a nonprofit, scientific, and

educational organization, works to conserve the land, water, and

related resources. The SWCS offers annual meetings and conferences as well as a scholarship program. SWCS publications include: the <u>Journal of Soil and Water Conservation</u>, a bimonthly newsletter, and numerous special

publications.

Format

Hard copy and technical assistance.

Availability

Contact the SWCS for membership, publication, meeting, or scholarship

information.

Testing and Materials

Organization

American Society for Testing and Materials

Contact

Patricia Downey, Manager of Public Relations American Society for Testing and Materials

1916 Race Street Philadelphia, PA 19103 Telephone: (215) 299-5524 Telex: 710-670-1037 Telefax: (215) 977-9679

Description

The American Society for Testing and Materials, ASTM, provides one of the world's largest voluntary standards development systems. The ASTM

publishes standard test methods, specifications, practices, guides,

classifications, and terminology for materials, construction, and petroleum products. The ASTM publishes annually The Book of ASTM Standards.

Format

Hard copy.

Availability

Contact the ASTM office for publication information.

Water Resources

Organization

American Water Resources Association

Contact

Kenneth Reid, Director

American Water Resources Association

5410 Grosvenor Lane, Suite 220

Bethesda, MD 20814 Telephone: (301) 493-8600

Description

The American Water Resources Association publishes the Water Resources

Bulletin, an interdiscilpinary scientific journal of water resources.

Format

Hard copy.

Availability

Contact the American Water Resources Association for further information.

Wetlands

Organization

Association of State Wetlands Managers

Contact

Jon Kusler, Executive Director

Association of State Wetlands Managers

PO Box 2463 Berne, NY 12023

Telephone: (518) 872-1804

Description

The Association of State Wetlands Managers promotes the exchange and

dissemination of information between wetland managers and

other interested parties. The Association improves public education by providing state-of-the-art wetland protection information and techniques via workshops, seminars, lectures, and publications. The Association also

publishes a newsletter.

Format

Hard copy and technical assistance.

Availability

The newsletter is available to members on a quarterly basis.

Wind Engineering

Organization

Wind Engineering Research Council

Contact

Kishor Mehta, President

Wind Engineering Research Council, Inc.

Box 4089

Texas Tech University Lubbock, TX 79409 Telephone: (806) 742-1900

Description

The Wind Engineering Research Council, WERC, provides primarily engineers with referrals to technical experts on wind-related topics. WERC connects engineers with experts on wind-induced damages, windstorms,

hurricanes, tornadoes, and wind engineering research.

Format

Technical referrals.

Availability

Contact Kishor Mehta.

APPENDICES

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STATE CLIMATOLOGISTS

(Conduct climatological research, provide climatological information, and archive weather records for the state.)

ALABAMA

Richard McNider, State Climatologist Alabama Office of State Climatology University of Alabama at Huntsville Johnson Research Center Huntsville, AL 35899 (205) 895-6257

ALASKA

James Wise, State Climatologist AEIDC/University of Alaska Alaska Climate Center 707 A Street Anchorage, AK 99501 (907) 279-4523

ARIZONA

Anthony Brazel, State Climatologist The Laboratory of Climatology Arizona State University Tempe, AZ 85287 (602) 965-6265

ARKANSAS

John Hehr, State Climatologist Dept. of Geography Carnall Hall 104 University of Arkansas Fayetteville, AR 72701 (501) 575-3159

CALIFORNIA

William Mork, Director, State Climatologist California Dept. of Water Resources Div. of Flood Management PO Box 388 Sacramento, CA 95802 (916) 445-5800

COLORADO

Thomas McKee, State Climatologist Colorado Climate Center Dept. of Atmospheric Science Colorado State University Fort Collins, CO 80523 (303) 491-8545

CONNECTICUT

David Miller, State Climatologist Dept. of Renewable Natural Resources 1376 Storrs Road, Room 308 WBY Building Box U-87 University of Connecticut Storrs, CT 06268 (203) 486-2840

DELAWARE

John Mather, State Climatologist State Climatologist for Delaware Center for Climatic Research Dept. of Geography University of Delaware Newark, DE 19716 (302) 451-8998

FLORIDA

Thomas Gleeson, State Climatologist Dept. of Meteorology Florida State University Tallahassee, FL 32306 (904) 644-3417

GEORGIA

Gayther Plummer, State Climatologist Institute of Natural Resources Ecology Building University of Georgia Athens, GA 30602 (404) 542-1555

HAWAII

Manabu Tagomori, State Climatologist State Dept. of Land & Natural Resources Div. of Water & Land Development PO Box 373 Honolulu, HI 96809 (808) 548-7539

IDAHO

Myron Molnau, State Climatologist Agricultural Engineering Dept. University of Idaho Moscow, ID 83843 (208) 885-6182

ILLINOIS

Wayne Wedland, State Climatologist Illinois State Water Survey 2204 Griffith Dr. Champaign, IL 61820 (217) 333-0729

INDIANA

Ken Scheeringa, State Climatologist Agronomy Dept. Purdue University West Lafayette, IN 47907-7899 (317) 494-4772

IOWA

Harry Hillaker, Jr., State Climatologist Iowa Dept. of Agriculture Weather Service Municipal Airport, Room 10 Des Moines, IA 50321 (515) 281-4062

KANSAS

Dean Bark, State Climatologist CES Computer System Office Umberger Hall, Room 211 Kansas State University Manhattan, KS 66506 (913) 532-6814

KENTUCKY

Glen Conner, State Climatologist Dept. of Geography & Geology Western Kentucky University Bowling Green, KY 42101 (502) 745-4555

LOUISIANA

Robert Muller, State Climatologist Dept. of Geography & Anthropology Louisiana State University Baton Rouge, LA 70803 (504) 388-6184

MAINE

Bernard Dethier, State Climatologist 1 Winslow Hall University of Maine Orono, ME 04469-0163 (207) 581-7980

MARYLAND

George Huffman, State Climatologist 1123A Jull Hall University of Maryland College Park, MD 20742 (301) 454-3110

MASSACHUSETTS

David Taylor, State Climatologist Dept. of Environmental Management Div. of Water Resources 496 Park Street North Reading, MA 01864 (617) 275-8860, Ext. 138

MICHIGAN

Fred Nurnberger, State Climatologist MDA/Climatology Div. 417 Natural Science Building Michigan State University East Lansing, MI 48824 (517) 373-8338

MINNESOTA

Jim Zandlo, Jr., State Climatologist Minnesota Dept. of Natural Resources University of Minnesota S-325 Borlang Hall St. Paul, MN 55108 (612) 296-4214

MISSISSIPPI

Charles Wax, State Climatologist Dept. of Geology & Geography Mississippi State University Mississippi State, MS 39762 (601) 325-3915

MISSOURI

Wayne Decker, State Climatologist Dept. of Atmospheric Science University of Missouri at Columbia 701 Hitt Street Columbia, MO 65211 (314) 882-6591

MONTANA

Joseph Caprio, State Climatologist Plant & Soil Science Dept. Montana State University Bozeman, MT 59717 (406) 994-5067

NEBRASKA

Kenneth Hubbard, State Climatologist CAMAC 237 Chase Hall (0728) University of Nebraska Lincoln, NE 68583-0728 (402) 472-6706

NEVADA

John James, State Climatologist Geography Dept. College of Arts & Sciences University of Nevada at Reno Reno, NV 89557-0048 (702) 784-6995

NEW HAMPSHIRE

Robert Adams, State Climatologist Dept. of Geography, James Hall University of New Hampshire Durham, NH 03824 (603) 862-1719

NEW JERSEY

Mark Shulman, State Climatologist Dept. of Meteorology & Physical Oceanography Cook College, Rutgers University PO Box 231 New Brunswick, NJ 08903 (201) 932-9318

NEW MEXICO

Office of the State Climatologist PO Box 5702 New Mexico Dept. of Agriculture Las Cruces, NM 88003 (505) 646-2642

NEW YORK

Keith Eggleston Atmospheric Science Unit Box 21, Bradfield Hall Cornell University Ithaca, NY 14853 (607) 255-3034

NORTH CAROLINA

Jerry Davis, State Climatologist Dept. of Marine, Earth & Atmospheric Science Box 8208 North Carolina State University Raleigh, NC 27695-8208 (919) 737-7243

NORTH DAKOTA

John Enz, State Climatologist Soils Dept. North Dakota State University Fargo, ND 58105 (701) 237-8576

OHIO

Jeffrey Rogers, State Climatologist Dept. of Geography Ohio State University 103 Bricker Hall Columbus, OH 43210-1361 (614) 422-2514

OKLAHOMA

Claude Duchon, State Climatologist Oklahoma Climatological Survey University of Oklahoma 710 ASP, Suite 8 Norman, OK 73019 (405) 325-2541

OREGON

Kelly Redmond, State Climatologist Office of the State Climatologist Climate Research Institute Oregon State University Corvallis, OR 97331 (503) 754-3714

RHODE ISLAND

Robert Wakefield, State Climatologist Dept. of Plant Sciences Room 313, Woodward Hall University of Rhode Island Kingston, RI 02881 (401) 792-4549

SOUTH CAROLINA

John Purvis, State Climatologist SC State Climatology Office 1201 Main Street, Suite 1100 Capital Center Columbia, SC 29201 (803) 737-0811

SOUTH DAKOTA

Harold Werner, State Climatologist Agricultural Engineering Dept. South Dakota State University Brookings, SD 57007 (605) 688-5141

TENNESSEE

Wayne Hamburger, State Climatologist Tennessee Valley Authority 310 Evans Building Knoxville, TN 37902 (615) 632-4222

TEXAS

John Griffiths, State Climatologist Meteorology Dept. Texas A&M University College Station, TX 77843 (409) 845-7320

UTAH

Gail Bingham, State Climatologist Utah State University, UMC-48 Logan, UT 84322 (801) 750-2190

VERMONT

Leonard Perry, State Climatologist Hills Building University of Vermont Burlington, VT 05401 (802) 656-2630

VIRGINIA

Patrick Michaels, State Climatologist Dept. of Environmental Sciences Clark Hall University of Virginia Charlottesville, VA 22903 (804) 924-0549

WASHINGTON

Mark Albright, State Climatologist Atmospheric Sciences Dept. University of Washington, AK-40 Seattle, WA 98195 (206) 543-0448

WEST VIRGINIA

Stanley Tajchman, State Climatologist Div. of Forestry 337 Perceival Hall West Virginia University Morgantown, WV 26505 (304) 293-3411

WISCONSIN

Douglas Clark, State Climatologist University of Wisconsin Extension 1353 Meteorology & Space Science Building 1224 West Dayton Street Madison, WI 53706 (608) 263-2374

WYOMING

Victor Hasfurther, State Climatologist Wyoming Water Research Center The University of Wyoming PO Box 3067 Laramie, WY 82071 (307) 766-2143

COASTAL ZONE MANAGEMENT

(Plans and implements programs for the orderly development of coastal zones.)

ALABAMA

Thomas Savage, Director Coastal Area Program Environmental Management Dept. 3263 Demetropolis Road, #10 Mobile, AL 36609 (205) 271-7700

ALASKA

Thomas Hawkins, Director Div. of Land & Water Management Dept. of Natural Resources PO Box 7005 Anchorage, AK 99510 (907) 762-4355

CALIFORNIA

Michael Wornum, Chairman Coastal Commission 631 Howard Street, 4th Floor San Francisco, CA 94105 (415) 543-8555

CONNECTICUT

Arthur Rocque, Director Planning & Coastal Area Management Environmental Protection Dept. 165 Capitol Avenue Hartford, CT 06106 (203) 566-7404

DELAWARE

Robert Henry II, Manager Beach Preservation Section Div. of Soil & Water Conservation PO Box 1401 89 Kings Hwy. Dover, DE 19901 (302) 736-4411

FLORIDA

David Worley, Environmental Administrator Coastal Zone Management Environmental Regulation Dept. 2600 Blairstone Road Tallahassee, FL 32301 (904) 488-4805

GEORGIA

Duane Harris, Director Coastal Resources Div. Dept. of Natural Resources 1200 Glynn Avenue Brunswick, GA 31523 (912) 264-7221

HAWAII

Tatsuo Fujimoto, Div. Head Planning Div. Office of State Planning PO Box 2359 Honolulu, HI 96804 (808) 548-4610

ILLINOIS

Daniel Injerd, Section Chief Lake Michigan Management Section Div. of Water Resources 310 S. Michigan, Room 1606 Chicago, IL 60604 (312) 793-3123

INDIANA

Dick Wawrvyniak, Assistant Director Div. of Water Dept. of Natural Resources 2475 Director's Row Indianapolis, IN 46241 (317) 232-4221

LOUISIANA

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MAINE

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(Plans and manages water resource projects dealing with issues such as water supply, flood control, and drought.)

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CONNECTICUT

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DISTRICT OF COLUMBIA

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PUERTO RICO

Executive Director
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Federal Offices

ARMY CORPS OF ENGINEERS

(Provides technical assistance, expertise, and planning in water resources and emergency management.)

NORTH ATLANTIC

Director US Army Corps of Engineers New England Division Office 424 Trapelo Road Waltham, MA 02154 (617) 894-2400, Ext. 545

Director US Army Corps of Engineers North Atlantic Division Office 90 Church Street New York, NY 10007 (212) 264-7483

Director US Army Engineer District, Baltimore PO Box 1715 Baltimore, MD 21203

Director US Army Engineer District, New York 26 Federal Plaza New York, NY 10278

Director US Army Engineer District, Norfolk 803 Front Street Norfolk, VA 23510

Director
US Army Engineer District, Philadelphia
US Custom House
2nd & Chestnut Street
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OHIO RIVER

Director US Army Corps of Engineers Ohio River Division Office 550 Main Street Cincinnati, OH 45201 (513) 684-3012

Director US Army Engineer District, Huntington 502 8th Street Huntington, WV 25701 Director US Army Engineer District, Louisville PO Box 59 Louisville, KY 40201

Director US Army Engineer District, Nashville PO Box 1070 Nashville, TN 37202

Director US Army Engineer District, Pittsburg William S. Moorhead Federal Building 1000 Liberty Avenue Pittsburg, PA 15222

SOUTH ATLANTIC

Director US Army Corps of Engineers South Atlantic Division Office 510 Title Building 30 Pryor Street, SW Atlanta, GA 30303 (404) 221-6702

Director US Army Engineer District, Charleston PO Box 919 Charleston, SC 29402

Director US Army Engineer District, Jacksonville PO Box 4970 Jacksonville, FL 32232

Director US Army Engineer District, Mobile PO Box 2288 Mobile, AL 36628

Director US Army Engineer District, Savannah PO Box 889 Savannah, GA 31402

Director
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Wilmington, NC 28402

LOWER MISSISSIPPI VALLEY

Director US Army Corps of Engineers Lower Mississippi Valley Division Office 1400 Walnut Street Vicksburg, MS 39180 (601) 634-5843, Ext. 385

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Director US Army Engineer District, New Orleans PO Box 60267 New Orleans, LA 70160

Director US Army Engineer District, St. Louis 210 Tucker Blvd. North St. Louis, MO 63101

Director US Army Engineer District, Vicksburg PO Box 60 Vicksburg, MS 39180

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Director US Army Corps of Engineers Missouri River Division Office 12565 West Center Road Omaha, NE 68101 (402) 221-72701

Director US Army Engineer District, Kansas City 700 Federal Building 601 East 12th Street Kansas City, MO 64106

Director US Army Engineer District, Omaha 6014 USPO & Courthouse Omaha, NE 68102

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Director US Army Corps of Engineers North Central Division Office 536 S. Clark Street Chicago, IL 60605 (312) 353-6531

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Director US Army Engineer District, Chicago 219 S. Darborn Street Chicago, IL 60604

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Director US Army Engineer District, Rock Island Clock Tower Building Rock Island, IL 61201

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Director US Army Engineer District, Tulsa PO Box 61 Tulsa, OK 74121

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Director US Army Engineer District, Seattle PO Box C-3755 Seattle, WA 98124

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(Preserves environmental quality by controlling and regulating environmental impacts.)

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FEDERAL EMERGENCY MANAGEMENT AGENCY

(Integrates emergency preparedness, mitigation, and response activities at the Federal, state and local levels.)

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REGION VI

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REGION VII

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REGION X

William Mayer, Administrator Federal Emergency Management Agency 130 228th Street, SW Bothell, WA 98021 (206) 487-8800

GEOLOGICAL SURVEY

(Studies and maps the nation's natural resources and hazards and disseminates this information.)

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HEADQUARTERS, VIRGINIA

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GEOLOGICAL SURVEY WATER RESOURCES

(Provides factual and interpretive information on floods and assists in minimizing flood losses.)

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